



# Asbestos Materials Refit survey and partial reinspection

## NW Sanderling

Shell Tankers Australia Pty Ltd



Reference: 754-PEREN324141

11 January 2024

# ASBESTOS MATERIALS REFIT SURVEY AND PARTIAL REINSPECTION

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NW Sanderling

**Report reference number: 754-PEREN324141**

14 November 2023

## PREPARED FOR

**Shell Tankers Australia Pty Ltd**

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## QUALITY INFORMATION

### Revision history

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## EXECUTIVE SUMMARY<sup>1</sup>

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Tetra Tech Coffey Pty Ltd completed an update of the asbestos materials register following the request for shell to inspect any new materials installed on board and further sampling of unidentified systems this was completed on the Northwest Sanderling between 31<sup>st</sup> October – 1<sup>st</sup> November 2023 while the vessel was alongside at Karratha Gas Plant in Dampier, Western Australia.

Sampling was conducted generally on systems identified by the engineers as being recently changed and then further systems that had not been completely sampled:

A partial reinspection of previously identified items has also taken place during this visit from the 3<sup>rd</sup> deck to the 4<sup>th</sup> deck.

Please refer to the asbestos register in Appendix B for more detail.

Please note that all activities and services provided by Tetra Tech Coffey are subject to the Methodologies and Statement of Limitations contained within this report.

Recommended actions and risk control strategies for reinspected materials are contained within the asbestos register and the recommendations section of this report. Tetra Tech Coffey recommends ongoing inspections of these materials by competent person.

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<sup>1</sup> This executive summary must be read in the context of the full report and the attached limitations.

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# 1. INTRODUCTION

Tetra Tech Coffey Pty Ltd (Coffey) was engaged by Shell International Trading and Shipping Company Limited (Shell) to conduct a Post Refit Asbestos Assessment on board the NorthWest Sanderling in Dampier WA.

The assessment was undertaken between 31<sup>st</sup> October – 1<sup>st</sup> November 2023 as a Post Refit assessment to sample location where equipment has been worked on, refurbished or replaced.

The assessment was conducted based on the condition of the materials at the time of inspection.

The purpose of this assessment was to provide a comprehensive investigation of re-introduction of ACM to the refit equipment.

International, Commonwealth, State legislation and industry guidance requires that an asbestos risk assessment inclusive of an asbestos register be developed by workplace owners, controllers of workplaces, employers, and other interested parties, such as contractors, as part of an overall asbestos materials management plan designed to control the risks of exposure to hazardous materials. The asbestos register summarises the findings of the risk assessments, as well as presenting methods of risk reduction that may be utilised as part of the management plan.

The vessel asbestos assessment involved the assessment of the vessel for asbestos-containing materials (ACM) including previously identified ACM, in accordance with the Scope of Works described in this report. A qualitative risk assessment was also completed of visually observed suspect ACM.

Recommended actions and risk control strategies for reinspected materials are contained within the asbestos register and the recommendations section of this report. Coffey recommends ongoing inspections of these materials by competent persons.

## 1.1 VESSEL INFORMATION

The asbestos materials re-assessment has previously been undertaken whilst the vessel was docked at Dampier, Western Australia.

The Northwest Sanderling was constructed as a Moss Rosenberg (LNG - NWS-class) LNG Gas Bulk Carrier in 1989 built at Mitsubishi Heavy Industries' (MHI) Nagasaki shipyard and delivered in June 1989. The vessel has a gross tonnage of 105010 tonnes, a length overall of 272.0 m and a breadth of 47.0 m and a draft of 9.4 m.

The vessel has previously been subject to an asbestos survey undertaken by Tetra Tech Coffey.

**Table 1: Vessel Description**

Vessel Description			
<b>Vessel Name:</b>	<b>NW Sanderling</b>		
<b>Location of Survey:</b>	Dampier, WA	<b>Built Year &amp; Location:</b>	1989, Japan
<b>Gross Tonnage:</b>	105,010 tonnes	<b>Length:</b>	272.00 m
<b>Beam:</b>	47.0 m	<b>Draught:</b>	9.4 m

## 1.2 SCOPE OF WORK

The scope of work involved a Tetra Tech Coffey Workplace Health & Safety Consultant (the Surveyor) mobilising to the vessel to complete a post refit inspection after recent refit of various systems as advised by the chief engineer.

A partial reinspection of previously identified items has also taken place during this visit from the 3<sup>rd</sup> deck to the 4<sup>th</sup> deck.

This work was completed to meet the requirements of Australian Maritime Safety Authority, Occupational Health and Safety (Maritime Industry) Act 1993 and Regulations 2003 (Regulation 2.08 and Schedule 2).

### 1.3 TETRA TECH TEAM

The vessel assessment was undertaken by WHS Hazmat Consultant, Mr. Sam Martin, Licensed Asbestos Assessor (QLD 2323956) of Tetra Tech Coffey.

During the vessel visit, a vessel Engineer provided assistance with location of the areas of interest and interpretation of information.

## 2. RECOMMENDATIONS

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### 2.1 STRUCTURE OF RECOMMENDATION

The recommendations, conclusions or stability of asbestos materials contained in this report shall not abrogate a person of their responsibility to work in accordance with Statutory Requirements, Codes of Practice, Guidelines, Material Safety Data Sheets, Work Instructions or reasonable work practices. Below are some general identified areas that need actions taken please refer to the attached asbestos register for more detailed information.

- Packing Workshop, Dainichi DLG-SH Lathe Power to deck – Encapsulate
- Packing (Hard) Port, Package Cooler (Aft) Penetration Cables – Encapsulate
- Packing (Soft) Port, Package Cooler (Aft) Penetration Cables – Encapsulate
- Packing No.1 Main Switchboard Room, Penetration to Deckhead – Encapsulate
- Gasket 2SA - DE3 - Temperature prob – Remove
- Packing Deck Rope Store (Starboard Aft) – Encapsulate
- Packing Shipwright Store, Port Side Aft Through FWD Bulkhead – Encapsulate
- Packing (Grey) Electrical Cable Trunk Room, Inboard Deck Penetration – Encapsulate
- Packing (White) Electric Cable Space, Starboard Bulkhead (Around Cables) – Encapsulate
- Packing Electric Cable Space, Inboard Deck Head – Encapsulate
- Packing (Grey) No.2 Equipment Room, Penetration Through Deck – Encapsulate
- Packing Cable Trunk Room (CRYO'S) FWD Bulkhead Penetration – Encapsulate
- Packing Cable Trunk Room (CRYO'S) Deck Penetration
- Putty - Fo'c'sle/Bosons Store, No.3 Winch & Windlass Starter Box – Encapsulate
- Packing - Lift Motor Room, Penetration – Encapsulate
- Packing - Engine Room, Diesel Alternator Penetration Below Junction Box JB-1 – Encapsulate
- Packing - IGG Room, Conduit from Junction Box JP-VPM – Encapsulate
- Packing - IGG Room, No.2 Air Compressor Power Cables Conduit – Encapsulate
- Packing (Grey/Cream) - Workshop Mezzanine, Port Aft Penetration – Encapsulate

### 2.1.1 Friable & Non-friable Asbestos

Asbestos containing materials (ACM) are referred to as either friable or non-friable. Friable asbestos is in the form of a powder, or can be crumbled, pulverised or reduced to powder by hand pressure when dry. Friable asbestos includes materials such as sprayed and thermal insulation, pipe lagging and millboard, and can release fibres with only minimal disturbance.

Non-friable asbestos products are ones in which the asbestos fibres are bound within the matrix of the material. Non-friable asbestos is difficult to damage or cause the release of fibres by hand and includes materials such as asbestos cement sheeting, some gaskets types, and adhesives, mastics and putty's. However, non-friable asbestos containing materials that have been subjected to weathering, physical damage, water damage, fire or other conditions may contain exposed fibres which could be released upon disturbance.

### 2.1.2 Control Measures

Friable ACM exhibits the greatest risk to human health as fibres are released upon minimal disturbance. As such removal and replacement would be the preferred option if such materials were found in accessible areas or air conditioning systems.

Alternatively, removal and replacement may not be the preferred option for bonded ACM in a good and stable condition as the risk associated with removal could be high (as in the case of breaking up and or refurbishment/modification to vessels may expose situations, which were concealed or otherwise impractical to access during this assessment).

The selection of the most appropriate control measure should be determined from risk assessments and detailed knowledge of the workplace and activities. The following general principles may be applied:

If the ACM is friable, in a poor/unstable condition and accessible with risk to health from exposure, immediate access restrictions should be applied and removal is required as soon as practicable using a licensed removalist.

If the ACM is friable and accessible but in a stable condition, removal is preferred. However, if removal is not immediately practicable, then short-term control measures (i.e. restrict access, sealing, enclosure etc.) may be employed until removal can be facilitated.

If the ACM is bonded and in a poor/unstable condition; minimising disturbance and removal or encapsulation may be appropriate controls.

For bonded ACM's in a good and stable condition, on-going maintenance and periodic inspection would be appropriate controls.

Any remaining identified ACM's or presumptions should be appropriately labelled, where possible, and regularly inspected to ensure they are not deteriorating and/or resulting in a potential risk to health.

Prior to any future breaking up and or modification to vessels may expose situations, which were concealed or otherwise impractical to access during this assessment asbestos containing materials likely to be disturbed by those works should be removed in accordance with the Shell Asbestos Management Plan and Guidance along with NOHSC Code of Practice for the Safe Removal of Asbestos 2nd Edition [NOHSC: 2002 (2005)].

Further assessment of risk through airborne fibre monitoring can assist with decisions on the most appropriate, and urgency of, control measures.

Other control measures such as training and communication strategies, control of contractors and administrative procedures must be considered as part of the overall Shell Asbestos Management Plan.

Coffey recommends Type 3/Intrusive surveys be conducted prior to breaking up, refit, repair or rebuild and modification or any structural alterations.

**Should any further suspect Asbestos and/or Hazardous Materials become evident during future refurbishment works. A qualified and experienced hygienist should be contacted immediately so that an OHS consultant can confirm the status of the suspect materials.**

## 2.2 RECOMMENDED CONTROL MEASURES

### 2.2.1 ACM Penetration Packing

Penetration packing materials have been previously identified throughout the vessel and a representative sampling methodology was developed to address the potential extent of Bulkhead and Deckhead penetrations containing suspect ACM. A number of locations identified asbestos as a constituent of the material. Due to the extensive use of penetration packing, the extent of repairs and refurbishments undertaken it is strongly recommended all similar material types be managed as asbestos containing.

Bulkhead, Deckhead and Deck penetrations have been assessed as likely to have Non friable ACM and have varying condition assessments that relate to condition and quality of the penetration seal following refurbishment works.

It is recommended to prevent inadvertent exposure to workers that the packing materials be removed prior to scheduled maintenance, or refurbishment, using appropriate localised control measures in accordance with Shell AMP, relevant legislation, Standards and Guidance Materials.

The following controls recommended for immediate action include, but are not limited to:

- HSE Safety Alert to communicate risk of exposure during routine maintenance and new installation thru penetrations.
- Labelling of penetrations to warn of potential hazard.
- Complete a risk assessment and develop a management plan prior to removal of the ACM.

### 2.2.2 Loose/Stored Gasket Items

During previous surveys loose and stored gasket / packing materials were identified throughout the vessel and a representative sample of these were taken. Asbestos Register have been updated with findings located in Appendix A.

### 2.2.3 In Situ Asbestos Gaskets

Asbestos gaskets and packing materials have been identified within systems. Due to the sporadic nature of installation it should be assumed that asbestos gaskets may be present throughout the vessel, so care should be taken when accessing any pipework/flanges. Further inspections and consultation with the vessel engineering teams would be required to assess management options regarding the full extent of asbestos gaskets within systems.

It is strongly recommended to consider all similar material types as containing asbestos unless confirmed otherwise through sampling and laboratory analysis. It is therefore recommended to prevent re-use of any of gaskets and packing material and that they are all removed utilising appropriate localised control measures and in accordance with local legislative requirements.

These materials require removal utilising appropriate localised control measures and in accordance with local legislative requirements.

All asbestos removal works should be undertaken in a controlled manner to ensure where remedial works take place contamination of the area cannot occur and risk of exposure of personnel to airborne asbestos fibres is minimised. The removal should also include cleaning of the immediate areas where materials have been stored.

In addition to the above, all gaskets and packing material when removed should be appropriately controlled and disposed of regardless of asbestos content. Adherence to this will limit confusion of the asbestos content of loose used gaskets and reduce the potential for used ACM gaskets to be stockpiled or left in locations where easily disturbed.

## 2.2.4 Replacement Gaskets

A rigorous procurement control process is required to ensure no ACMs are introduced into systems or store on the vessel. These control measures should include obtaining detailed material data sheets from the manufacturer, implementing an independent third-party testing regime to analyse representative samples of new material prior to storing or introduction into vessel systems combined with Shell's current management systems and training.

## 2.3 PROCUREMENT PROCEDURE

It is known that Asbestos Containing Materials are still in production and has widespread usage throughout the Asia-Pacific region with distribution to suppliers worldwide and as such the possibility exists that Asbestos Containing Material maybe inadvertently introduced to piping systems during works.

Care should be taken whenever maintenance and replacement works are conducted to ensure that only asbestos free products are procured / installed and are not inadvertently introduced to the vessel via installation of replacement materials or those materials pre-installed to replacement equipment.

It is recommended that prior to any procurement or reinstatement works replacement materials be sampled and tested prior to use.

All asbestos removal works should be undertaken in a controlled manner to ensure where remedial works take place contamination of areas such as bilges and equipment cannot occur and risk of exposure of personnel to airborne asbestos fibres is minimised. The removal should also include cleaning of the immediate areas where materials have been stored.

## 2.4 TRAINING

Information, instruction and training must be provided to workers, contractors and others who may come into contact with hazardous materials (including asbestos) in a workplace, either directly or indirectly.

Depending on the circumstances this hazardous materials awareness training may include:

- The purpose of the training;
- The health risks of hazardous materials;
- The types, uses and likely occurrence of hazardous materials on site, in plant and/or equipment in the workplace;
- The trainee's roles and responsibilities for hazmat management;
- Where the register of hazmat is located and how it can be accessed;
- The timetable for removal of hazmat from the workplace;
- The processes and procedures to be followed to prevent exposure, including exposure from any accidental release of hazmat into the workplace;
- Where applicable, the correct use of maintenance and control measures, protective equipment and work methods to minimise the risks from hazmat, limit the exposure of workers and limit the spread of hazmat outside any work area;
- The National Exposure Standard (NES) and control levels for hazmat; and
- The purpose of any air monitoring or health surveillance that may occur.

Should any further suspect asbestos and/or hazmat become evident during future disturbance/ refurbishment works which have not been addressed in this report, Tetra Tech Coffey should be contacted immediately so that a WHS consultant can confirm the status of the suspect material/s.

**Tetra Tech Coffey is able to assist with all aspects of Risk Management for removal of asbestos and other hazardous materials resulting from these findings.**

### 3. ASBESTOS MATERIALS REGISTER

Identified and tested items are listed in an Asbestos Materials Register in **Appendix A**. The Register is to be read in conjunction with the whole report.

The Asbestos Materials Register is made up of relevant information gathered on site plus Tetra Tech Coffey's assessment of risk and assignment of action ratings. Reference to photographs, where available, is made in the register along with sample identification and analysis results, where applicable. Sample analysis results from previous assessments may be utilised and referenced in the registers.

The register is provided in tabular form and flows from left to right starting with the material description, through additional information, leading to an assessment of risk and recommended action for remedial works. Recommended actions are a guide only.

The client should decide the most appropriate controls based on such factors as risk, detailed knowledge of workplaces and procedures, plans for upgrade or refurbishment etc.

Please refer to the following sections in conjunction with the register.

Section 3	Methodology	Contains important information regarding the survey and report methods
Section 4	Risk Assessments	Explains all terminology and ratings used.
Section 5	Recommendations	Contains information and recommendations applicable to asbestos materials and their management.
Section 8	Photograph	Cross - referenced from register, where available
Appendix A	Asbestos Materials Register	Register containing a list of all asbestos materials identified during the survey
Appendix B	Analytical Reports	Contains results of sample analysis from the survey. See previous reports for referred samples.
Appendix C	Asbestos Materials Maintenance Log	Table provided for client use, if required, to maintain a record of works associated with asbestos materials.
Appendix D	Legislative Requirements	Tabulates legislative requirements state-by-state. (accurate to last periodic update by Tetra Tech Coffey)
Appendix E	Limitations	Limitations regarding scope, methodology

## 4. REFERENCES

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Department of Industrial Resources (DoIR) *Guidance for Upstream Petroleum on the National Ban on Asbestos* of 31 December 2003.

National Occupational Health and Safety Commission (NOHSC), *Approved Criteria for Classifying Hazardous Substances*, 1008 - 2002

Model Code of Practice - *How to Management and Control Asbestos in the Workplace* (2020)

Model Code of Practice - *How to Safely Remove Asbestos* (2020)

National Occupational Health and Safety Commission Code of Practice for the *Management and Control of Asbestos in the Workplace*; [NOHSC: 2018 (2005)].

National Occupational Health and Safety Commission (NOHSC), *List of Designated Hazardous Substances*, 10005 - 1999

Occupational Health and Safety (Maritime Industry) Act 1993

The National Model regulations for the *Control of Workplace Hazardous Substances*; [NOHSC: 1005 (1994)]

Seafarers Safety, Rehabilitation and Compensation Authority's "Guidance on the Prohibition on the use of Asbestos in Australian Maritime Industry Workplaces (Version 3 March 2004).

Work Health and Safety Act 2011 and Regulations (Commonwealth, NSW 2017, ACT 2011, NT 2011, QLD 2011, TAS 2012 & SA 2012)

Occupational Health and Safety Act 1984 and Regulations 1996 (WA)

Work Health and Safety (General) Regulations 2022

The National Occupational Health & Safety Commission -NOHSC 1003-2005: *Australian Exposure Standards for Atmospheric Contaminants in the Workplace*.

Amendment to the Customs (Prohibited Imports) Regulations 1956 - Regulation 4C – Importation of Asbestos – Australian Customs Notice No. 2009/30. – August 200.

## 5. PHOTOGRAPHS



**Photo 1**

H6532

Tank Top/Lower Deck, Engine Room, Atmos. Drain Tank Pump Start Switch (Auto Level), Putty (Chrysotile)



**Photo 2**

H6542

Tank Top/Lower Deck, Engine Room, Electrical Cable Conduit Above No.1 Atmos Drain Pump, Putty (Chrysotile)



**Photo 3**

H6544

Tank Top/Lower Deck, Engine Room, Electrical Cable Conduit Above No.1 Atmos Drain Pump, Putty (Chrysotile)



**Photo 4**

H6545

Tank Top/Lower Deck, Engine Room, AUX. Condenser Drain Line to Atmos Drain Tank Temp Sensor, Gasket (Chrysotile)



**Photo 5**

H6546

Tank Top/Lower Deck, Engine Room, No.2 Ballast Pump (Electrical) Power Cable to Junction AUX., Putty (Chrysotile)



**Photo 6**

H6548

Tank Top/Lower Deck, Engine Room, VPJ49 - Flange, Gasket (Chrysotile)



**Photo 7**  
H6553  
Tank Top/Lower Deck, Engine Room, Bilge and General Service Pump – Conduit, Putty (Chrysotile)



**Photo 8**  
H6557  
Tank Top/Lower Deck, Engine Room, Controller Isolation V-PF168 Dump STM Water Spray Inlet Valve, Gasket (Chrysotile)



**Photo 9**  
H6567  
Tank Top/Lower Deck, Engine Room, Bilge Pump Conduit, Putty (Chrysotile)



**Photo 10**  
H6571  
Tank Top/Lower Deck, Engine Room, Stern Tube Filling Line Valve Flange, Gasket (Chrysotile)



**Photo 11**  
H6572  
Tank Top/Lower Deck, Engine Room, Junction Box - Aft Bulkhead, Putty (Chrysotile)



**Photo 12**  
H6584  
Tank Top/Lower Deck, Engine Room, Sludge Oil Transfer Pump Flange Relief Valve, Gasket (Chrysotile)



**Photo 13**  
H6585  
Tank Top/Lower Deck, Engine Room, Between  
No.1 & No.2 Main C.C.S Cooling S.W. Pumps, Putty (Chrysotile)



**Photo 14**  
H6587  
Tank Top/Lower Deck, Engine Room, Telephone  
Booth - Perforated Cladding, Fibre Board (Chrysotile)



**Photo 15**  
H6588  
Tank Top/Lower Deck, Engine Room, Main L.O. Filter Bypass Valve,  
Gasket (Chrysotile)



**Photo 16**  
H6603  
4th Deck, Purifier Room, D.O. Transfer Pump Cross Connection  
Valve Bonnet, Gasket (Chrysotile)



**Photo 17**  
H6604  
4th Deck, Purifier Room, HFO Transfer Pump Cross Connection  
Valve Bonnet, Gasket (Chrysotile)



**Photo 18**  
H6605  
4th Deck, Engine Room, Hotwell/Observation Tank Viewing Glass  
Gasket (Chrysotile)



**Photo 19**  
H6612  
4th Deck, Engine Room, No.2 Cascade Controller  
Conduit, Putty (Chrysotile)



**Photo 20**  
H6617  
4th Deck, Engine Room, Bilge Primary Tank Level  
Indicator, Sight Glass, Gasket (Chrysotile)



**Photo 21**  
H6619  
4th Deck, Engine Room, Electric Lighting EL7 Conduit, Putty  
(Chrysotile)



**Photo 22**  
H6632  
4th Deck, Engine Room, Hychlorinator Power, Inlet, Putty  
(Chrysotile)



**Photo 23**  
H6637  
3rd Deck, Lift Motor Room, Braking System Friction Material,  
Lining (Chrysotile)



**Photo 24**  
H6638  
3rd Deck, Lift Motor Room, Penetration, Packing (Chrysotile)



**Photo 25**  
H6641  
3rd Deck, Engine Room, Diesel Alternator L.O. Cooler End Cover, Gasket (Chrysotile)



**Photo 26**  
H6644  
3rd Deck, Engine Room, Diesel Alternator Junction Box JB-1, Putty (Chrysotile)



**Photo 27**  
H6647  
3rd Deck, Engine Room, Diesel Alternator Electrical (x16) Cables Outlet, Putty (Chrysotile)



**Photo 28**  
H6649  
3rd Deck, Engine Room, Turbine Oil Gravity Tank Level Sight Glass, Gasket (Chrysotile)



**Photo 29**  
H6650  
3rd Deck, Engine Room, Turbine Oil Gravity Tank Level Overflow Sight Glass, Gasket (Chrysotile)



**Photo 30**  
H6651  
3rd Deck, Engine Room, Turbine Oil Gravity Tank Lower Valve, Gasket (Chrysotile)



**Photo 31**  
H6657  
3rd Deck, Engine Room, Port Domestic F.W. Tank  
Low Level Switch Flange, Gasket (Chrysotile)



**Photo 32**  
H6661  
3rd Deck, Engine Room, No.1 Distilled Water Tank Low Level  
Switch Flange, Gasket (Chrysotile)



**Photo 33**  
H6663  
3rd Deck, Engine Room, Clean Oil Tank Level Sight Glass, Gasket  
(Chrysotile)



**Photo 34**  
H6664  
3rd Deck, Engine Room, L.O. Daily Tank Level Sight Glass, Gasket  
(Chrysotile)



**Photo 35**  
H6665  
3rd Deck, Engine Room, Compressor Oil Tank Level Sight Glass,  
Gasket (Chrysotile)



**Photo 36**  
H6667  
3rd Deck, IGG Room, HFO Tank Steam Heating Valve Flange,  
Gasket (Chrysotile)



**Photo 37**  
H6673  
3rd Deck, IGG Room, Burner End Cover, Gasket (Chrysotile)



**Photo 38**  
H6675  
3rd Deck, IGG Room, Junction Box Adj. Door, Putty (Chrysotile)



**Photo 39**  
H6676  
3rd Deck, No.1 Diesel Generator Room, L.O. Priming Pump Outlet Flange, Gasket (Chrysotile)



**Photo 40**  
H6678  
3rd Deck, No.1 Diesel Generator Room, Power Cables from Alternator, Putty (Chrysotile)



**Photo 41**  
H6680  
3rd Deck, No.1 Diesel Generator Room, Cooling Water Line - L.O. Cooler Inlet Flange, Gasket (Chrysotile)



**Photo 42**  
H6682  
3rd Deck, No.2 Diesel Generator Room, Power Cables from Alternator, Putty (Chrysotile)



**Photo 49**  
H6684  
3rd Deck, No.2 Diesel Generator Room, Temperature Sensor - Charge Air Cooler, Gasket (Chrysotile)



**Photo 50**  
H6685  
3rd Deck, No.2 Diesel Generator Room, Exhaust Gasket at Charge Air Cooler, Gasket (Chrysotile)



**Photo 51**  
H6687  
3rd Deck, Steering Flat, Transfer Oil Tank Level Gauge Glass, Gasket (Chrysotile)



**Photo 52**  
G6688  
3rd Deck, Steering Flat, Overflow Tank Level Gauge Glass, Gasket (Chrysotile)



**Photo 53**  
G6690  
3rd Deck, Steering Flat, Overflow Tank Filling Glass Flange, Gasket (Chrysotile)



**Photo 54**  
G6691  
3rd Deck, Steering Flat, Storage Tank S2V68 Sight Level Glass, Gasket (Chrysotile)



**Photo 55**  
G6693  
3rd Deck, Steering Flat, Starboard Header Tank Level Switch, Gasket (Chrysotile)



**Photo 56**  
G6701  
3rd Deck, Steering Flat, Power Cable Conduit Aft Winch Electrical Cabinet, Putty (Chrysotile)



**Photo 57**  
H6702  
3rd Deck, Steering Flat, Hydraulic Valve Bonnet, Gasket (Chrysotile)



**Photo 58**  
H6707  
3rd Deck, Port Gas Hood, Boiler Gas Valve, Flange, Gasket (Chrysotile)



**Photo 59**  
H6711  
3rd Deck, Burner Tops, Starboard Boiler Periscope, Gasket (Chrysotile)



**Photo 60**  
H6713  
3rd Deck, Burner Tops, Starboard Boiler Conduit No.5 Soot Blower Junction Box, Putty (Chrysotile)



**Photo 61**  
H6714  
2nd Deck, Engine Room, Starboard Boiler No.1 Retractable Soot Blower Power Junction Box, Putty (Chrysotile)



**Photo 62**  
H6716  
2nd Deck, Engine Room, Port Boiler No.1 Retractable Soot Blower Power Junction Box, Putty (Chrysotile)



**Photo 63**  
H6721  
3rd Deck, Engine Room, Port Boiler No.1 Retractable Soot Blower Power Junction Box, Putty (Chrysotile)



**Photo 64**  
H6722  
3rd Deck, Engine Room, Starboard Boiler No.1 Retractable Soot Blower Power Junction Box, Putty (Chrysotile)



**Photo 65**  
H6726  
2nd Deck, 2PA, OWS Valve, Gasket (Chrysotile)



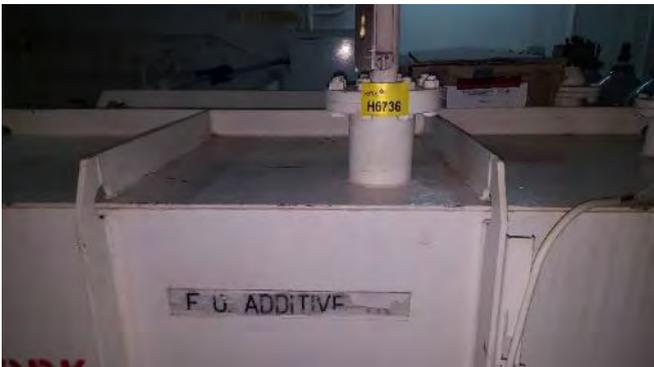
**Photo 66**  
H6728  
2nd Deck, Chemical Locker, Halogen Light Junction Box, Putty (Chrysotile)



**Photo 67**  
H6732  
2nd Deck, IGG Room, Sight Glass Level, Gasket (Chrysotile)



**Photo 68**  
H6735  
2nd Deck, Port, Fuel Oil Additive Tank Manhole Cover, Gasket (Chrysotile)



**Photo 69**  
H6736  
2nd Deck, Port, Fuel Oil Additive Tank Sight Level Gauge, Gasket (Chrysotile)



**Photo 70**  
H6740  
2nd Deck, Port, Fuel Oil Additive Tank Manhole Cover (Top), Gasket (Chrysotile)



**Photo 71**  
H6742  
2nd Deck, Port, Package Cooler Inlet Valve Flange, Gasket (Chrysotile)



**Photo 72**  
H6749  
2nd Deck, Starboard, Aux. L.O. Purifying Tank (Small) & Aux L.O. Renovation Tank Sight Level Gauge, Gasket (Chrysotile)



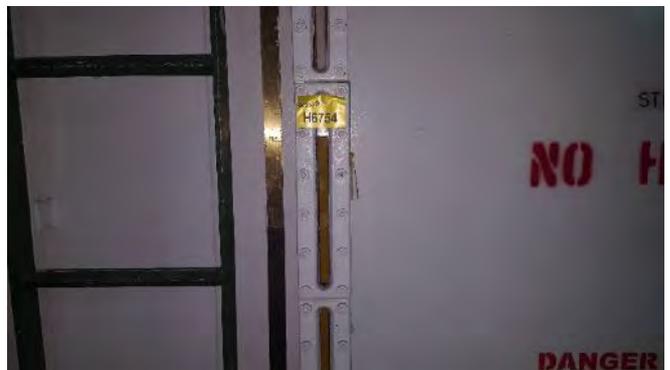
**Photo 73**  
H6750  
2nd Deck, Starboard, L.O. Renovation Tank (Small) Filling Line, Gasket (Chrysotile)



**Photo 74**  
H6751  
2nd Deck, Starboard, L.O. Renovation Tank (Small) Manhole, Gasket (Chrysotile)



**Photo 75**  
H6753  
2nd Deck, Diesel Oil Service Tank Float Level Switch (x3), Gasket (Chrysotile)



**Photo 76**  
H6754  
2nd Deck, L.O. Storage Tank "F" Level Gauge Glass, Gasket (Chrysotile)



**Photo 77**  
H6756  
2nd Deck, L.O. Storage Tank "A" Level Gauge Glass, Gasket (Chrysotile)



**Photo 78**  
H6757  
2nd Deck, D/G L.O. Storage Tank Level Gauge Glass, Gasket (Chrysotile)



**Photo 79**  
H6758  
2nd Deck, D/G L.O. Storage Tank Filling Valve, Gasket (Chrysotile)



**Photo 80**  
H6759  
2nd Deck, Gen. Eng. L.O. Renovating Tank Side Manhole, Gasket (Chrysotile)



**Photo 81**  
H6760  
2nd Deck, Gen. Eng. L.O. Renovating Tank Level Gauge Glass, Gasket (Chrysotile)



**Photo 82**  
H6761  
2nd Deck, Gen. Eng. L.O. Purifying Tank Level Gauge Glass, Gasket (Chrysotile)



**Photo 83**  
H6763  
2nd Deck, Gen. Eng. L.O. Purifying Tank Level Gauge Glass Valve, Gasket (Chrysotile)



**Photo 84**  
H6769  
2nd Deck, Package Cooler Starboard Cooling Inlet Valve, Gasket (Chrysotile)



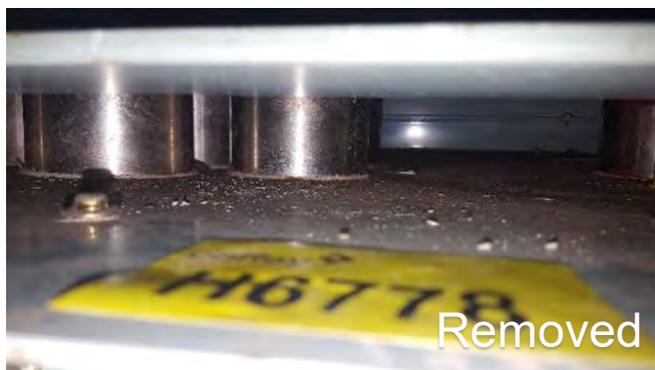
**Photo 85**  
H6773  
2nd Deck, No.2 Main Switchboard Room (O/B) Penetration to Deck Head, Putty (Chrysotile)



**Photo 86**  
H6774  
2nd Deck, No.2 Main Switchboard Room (O/B) on Top of Electrical Cabinet, Mixed Debris (Chrysotile)



**Photo 87**  
H6776  
2nd Deck, No.1 Main Switchboard Room, Penetration to Deck Head, Packing (Chrysotile)



**Photo 88**  
H6778  
2nd Deck, No.1 Main Switchboard Room, Top of Electrical Cabinet, Mixed Debris (Chrysotile)



**Photo 89**  
H6779  
2nd Deck, Control Room, Starboard Cupboard to Wooden Cabinet, Small Spiral Wound Gasket (White Sealing Element) '1 Mpa Steam Trap Valves (Chrysotile)



**Photo 90**  
H6780  
2nd Deck, Control Room, Above DB3 Dist. Panel AC100v, Large Spiral Bound Gasket (White Sealing Element) (Chrysotile)



**Photo 91**  
H6783  
Upper Deck, Air Handling Room, Swimming Pool Drain Valve, Gasket (Chrysotile)



**Photo 92**  
G6787  
Upper Deck, Hydraulic Room, Ballast Power Pack Level Sight Glass, Gasket (Chrysotile)



**Photo 93**  
G6788  
Upper Deck, Hydraulic Room, Cargo Power Pack Level Sight Glass, Gasket (Chrysotile)



**Photo 94**  
G6793  
Upper Deck, No1 Cargo Room on Storage Rack, Gasket Loose "Tombo 1000" Blue Background Black Font (x16) (Chrysotile)



**Photo 95**  
G6794  
Upper Deck, No1 Cargo Room on Storage Rack, Gasket Loose "Valqua 1501" Grey Background Green Font (x14) (Chrysotile)



**Photo 96**  
G6798  
Upper Deck, Emergency S/B Room No1 Engine Room Supply Fan Cabinet, Putty (Chrysotile)



**Photo 97**  
G6799  
Upper Deck, Emergency Generator Room L.O. End Cover, Gasket (Chrysotile)



**Photo 98**  
G6802  
Upper Deck, Emergency Generator Room Exhaust Trunking Manhole, Gasket (Chrysotile)



**Photo 99**  
G6812  
A Deck, Incinerator Room, Diesel Tank – Low Level Switch, Gasket (Chrysotile)



**Photo 100**  
G6813  
A Deck, Incinerator Room, Junction Box, FWD Bulkhead Adj. 1IF 154C Box, Putty (Chrysotile)



**Photo 101**  
G6816  
A Deck, Incinerator Room, Exhaust Trunking Before Blower, Gasket (Chrysotile)



**Photo 102**  
G6819  
B Deck, Engine Room, Incinerator Exhaust Trunking (Adj. No.1 Fan Room Exhaust), Gasket (Chrysotile)



**Photo 103**  
G6823  
Upper Deck, Engine Room, Main C.C.S F.W. Expansion Tank Low Level Switch, Gasket (Chrysotile)



**Photo 104**  
G6830  
Upper Deck, Fo'c'sle/Bosons Store, Hydraulic Oil Header/Tank Overflow Level Sight Glass, Gasket (Chrysotile)



**Photo 105**  
G6831  
Upper Deck, Fo'c'sle/Bosons Store, No.3 Winch & Windlass Starter Box, Putty (Chrysotile)



**Photo 106**  
G6832  
Upper Deck, Fo'c'sle/Bosons Store, Transfer Oil Tank Sight Glass, Gasket (Chrysotile)



**Photo 107**  
G6833  
Upper Deck, Fo'c'sle/Bosons Store, Storage Oil Tank Sight Glass, Gasket (Chrysotile)



**Photo 108**  
G6834  
Upper Deck, Fo'c'sle/Bosons Store, Transfer Oil Tank Inlet/Inspection Plate, Gasket (Chrysotile)



**Photo 109**  
G6835  
Upper Deck, Fo'c'sle/Bosons Store, Pipework to Transfer Oil Tank, Gasket (Chrysotile)



**Photo 110**  
G6838  
Upper Deck, Fo'c'sle/Bosons Store, Hydraulic Pump No.2 Suction Flange, Gasket (Chrysotile)



**Photo 111**  
G6839  
Upper Deck, Fo'c'sle/Bosons Store, Hydraulic Pump No.3 Suction Flange, Gasket (Chrysotile)



**Photo 112**  
G6840  
Upper Deck, Fo'c'sle/Bosons Store, Hydraulic Pump No.4 Suction Flange, Gasket (Chrysotile)



**Photo 113**  
G6841  
Upper Deck, Fo'c'sle/Bosons Store, Hydraulic Pump No.4 Suction Flange, Gasket (Chrysotile)



**Photo 114**  
G6864  
Upper Deck, Cargo Motor Room, No.1 Freshwater Pump Discharge Valve Casing, Gasket (Chrysotile)



**Photo 115**  
H6865  
Upper Deck, Cargo Motor Room, No.2 Freshwater Pump Discharge Valve Casing, Gasket (Chrysotile)



**Photo 116**  
H6872  
Upper Deck, Cargo Motor Room, Control Air Line Aft Bulkhead Between No.1 & No.2 L.D. Compressors, Gasket (Chrysotile)



**Photo 117**  
H6873  
Upper Deck, Cargo Motor Room, AUX.CCS.F.W.EXP.TK Float Switch, Gasket (Chrysotile)



**Photo 118**  
H6876  
Upper Deck, Cargo Motor Room, Gas Compressor L.O. Storage Tank Manhole Cover, Gasket (Chrysotile)



**Photo 119**  
H6877  
Upper Deck, Cargo Motor Room, L.O. Storage Tank Level Gauge Sight Glass, Gasket (Chrysotile)



**Photo 120**  
G6880  
Upper Deck, Cargo Motor Room, Condensate Drain Tank Gauge Glass (With Gas Sampler Points), Gasket (Chrysotile)



**Photo 121**  
G6883  
Upper Deck, Cargo Motor Room, Gas Vent Bilge Tank Cover, Gasket (Chrysotile)



**Photo 122**  
H6885  
Upper Deck, Cargo Motor Room, Gas Vent Drain, Tank Manhole, Gasket (Chrysotile)



**Photo 123**  
H6888  
Upper Deck, Cargo Motor Room, Cooling Water Outlet From Drain Cooler, Gasket (Chrysotile)



**Photo 124**  
H6890  
Upper Deck, Cargo Motor Room, No.1 H.D L.O Gearbox Sump, Gasket (Chrysotile)



**Photo 125**  
G6894  
Upper Deck, Port Passage, Electrical Cabinet JCM-20 Frame 87, Putty (Chrysotile)



**Photo 126**  
H6897  
Upper Deck, Port Passage, Pipework Air Line Frame 66, Gasket (Chrysotile)



**Photo 127**  
H6900  
Upper Deck, Port Passage, Spectacle Piece Port Frame 65, Gasket (UMF)



**Photo 128**  
H6901  
Upper Deck, Port Passage, Spectacle Piece Starboard Frame 66, Gasket (UMF)



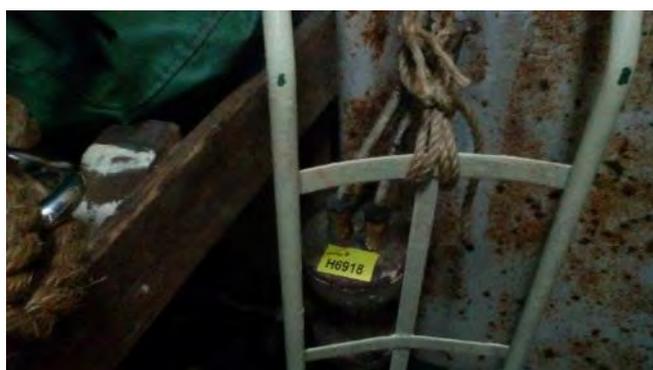
**Photo 129**  
H6912  
Upper Deck, Deck Rope Store (Starboard Aft), Packing (Chrysotile)



**Photo 130**  
G6914  
Upper Deck, B.A. Locker (Starboard Aft) Cable Conduit Pipe to Deck, Putty (Chrysotile)



**Photo 131**  
H6917  
Upper Deck, Shipwright Store, Port Side Aft Through FWD Bulkhead, Packing (Chrysotile)



**Photo 132**  
H6918  
Upper Deck, Boat Gear Locker, Cable Penetration to Deck via Steel Conduit, Putty (Chrysotile)



**Photo 133**  
H6920  
Upper Deck, No.3 Dry Chemical Powder Room Vessel Pipework Outlet Flange to Manifold, Gasket



**Photo 134**  
H6927  
Upper Deck, No.1 Dry Chemical Powder Room, Vessel Inboard Blank, Gasket



**Photo 135**  
H6929  
Upper Deck, No.2 Cargo Hold N2 Blanked Sampling Point, Gasket (Chrysotile)



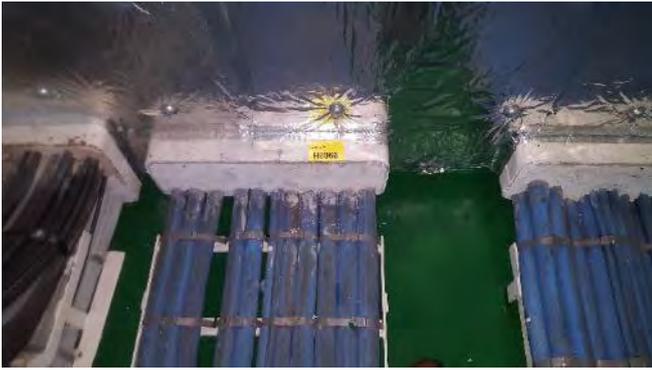
**Photo 136**  
G6962  
G Deck, Cable Trunk Room (CRYOS) FWD Bulkhead Penetration, Packing (Chrysotile)



**Photo 137**  
H6963  
Nav. Bridge, Cable Trunk Room (CRYOS) Deck Penetration, Packing (Chrysotile)



**Photo 138**  
H6965  
F Deck, Electric Cable Space, Starboard Bulkhead (Around Cables), Debris & Dust (Grey) (Chrysotile)



**Photo 139**  
G6966  
F Deck, Electric Cable Space, Starboard Bulkhead(Around Cables), Packing (White) (Chrysotile)



**Photo 140**  
H6967  
F Deck, Electric Cable Space, Inboard Deck Head, Packing (Chrysotile)



**Photo 141**  
H6968  
F Deck, Electric Cable Space, Below Inboard Deck Head, Debris & Dust (Chrysotile)



**Photo 142**  
H6969  
F Deck, Electrical Cable Trunking, Lighting Power Board "LO3", Putty (Chrysotile)



**Photo 143**  
H6971  
F Deck, Electrical Cable Trunking, Inboard Deck Head, Debris (Chrysotile)



**Photo 144**  
H6972  
F Deck, No.1 Equipment Room, Port FWD, Debris (Chrysotile)



**Photo 145**  
H6973  
F Deck, No.1 Equipment Room, Starboard Aft, Debris & Dust (Chrysotile)



**Photo 146**  
H6974  
F Deck, No.2 Equipment Room, Shelf CA2, Gasket "Tombo 1000" Blue Backing Black Font (Chrysotile)



**Photo 147**  
H6975  
F Deck, No.2 Equipment Room, F3 DB4 722.12.01.G10 Boil Off Gas Valves, Gasket (Pink Backing Black Cursive Font) (Chrysotile)



**Photo 148**  
H6976  
F Deck, No.2 Equipment Room, F3 DE8 921. 10.01.G01, Electromagnetic Seal, Packing Gland (Chrysotile)



**Photo 149**  
H6977  
F Deck, No.2 Equipment Room, Penetration Through Deck, Packing (Grey) (Chrysotile)



**Photo 150**  
H6978  
E Deck, Electrical Cable Trunk Room, Inboard Deck Penetration, Packing (Grey) (Chrysotile)



**Photo 151**

K5211

2nd Deck, 2SA, AL5 450.11.01.007 Pump Packing, Packing 'Coffin' (Chrysotile)



**Photo 152**

K5215

2nd Deck, 2SA, AL4 45011.01G4, Spiral Wound Gasket (White Sealing Element) Branded 'Coffin' (Chrysotile)



**Photo 153**

K5221

2nd Deck, 2SA, AE3 410.11.01.G06 Clutch to G.S.Pump Priming Pump Clutch, Hard Facing (Shinko GVP200 MUS) (Chrysotile)



**Photo 154**

K5222

2nd Deck, 2SA, AE3 444.11.01.009 Main Condenser Vacuum Pump Nash International, Gasket "Valqua 1500" Black Backing with Green Font (Chrysotile)



**Photo 155**

K5226

2nd Deck, 2SA, AE4 352.02.02.067 Emergency Diesel Generator, Gasket (Valqua Blue Backing with Orange Font) for intake Manifold Daihatsu 0661 12500 067 (UMF)



**Photo 156**

K5235

2nd Deck, 2SA, BE3 709.71.01.071, Main Steam System Traps Gasket (Chrysotile)



**Photo 157**  
K5240  
2nd Deck, 2SA, BF2 Boiler Gauge Glass, Gasket (Metal)  
(Chrysotile)



**Photo 158**  
K5249  
2nd Deck, 2SA, BF1 693.10.01.003 Soot Blower, Spiral Wound  
Gasket (Chrysotile)



**Photo 159**  
K5250  
2nd Deck, 2SA, BF1 693.10.01.002 Soot Blower, Gasket Metal  
(Chrysotile)



**Photo 160**  
K5260  
2nd Deck, 2SA, BJ3 708.10.01.024 Manoeuvring Valves, Gasket  
"Valqua 1500" Black Backing with Green Font (Chrysotile)



**Photo 161**  
K5261  
2nd Deck, 2SA, BJ2, Gasket "Valqua" (Chrysotile)



**Photo 162**  
K5262  
2nd Deck, 2SA, BJ2, Gaskets Loose (Various Grey Sizes)  
(Chrysotile)



**Photo 163**

K5263

2nd Deck, 2SA, BJ2 Drawer, Debris (Chrysotile)



**Photo 164**

K5264

2nd Deck, 2SA, BJ2 Blue Plastic Container, Debris (Chrysotile)



**Photo 165**

K5265

2nd Deck, 2SA, BJ2 Blue Plastic Container, Debris (Chrysotile)



**Photo 166**

K5266

2nd Deck, 2SA, BJ2, Gaskets Loose (Various Sizes of Graphite Material) (Chrysotile)



**Photo 167**

K5267

2nd Deck, 2SA, BJ2, Gaskets Loose (Green with White Speckles 5K200A) (Chrysotile)



**Photo 168**

K5269

2nd Deck, 2SA, BJ2, Spiral Wound Loose Gaskets Vortex C20 K25,D 20K 25 (Chrysotile)



**Photo 169**

K5270

2nd Deck, 2SA, BJ2, Spiral Wound Medium Size Loose No Brand (Various Makes) (Chrysotile)



**Photo 170**

K5271

2nd Deck, 2SA, BJ2, Spiral Wound Medium Size Loose No Brand (Various Makes) (Chrysotile)



**Photo 171**

K5275

2nd Deck, 2SA, BJ2, Spiral Wound Gasket White Sealing Element (No Brand) 9 lb's – 58 (Chrysotile)



**Photo 172**

K5277

2nd Deck, 2SA, BJ2, Spiral Wound Gaskets Large Size (158x173x203 JPI900-6) (Chrysotile)



**Photo 173**

K5293

2nd Deck, 2SA, CB5 Cargo Tank Gauging 880.12.00.001, Gasket Loose "Permanite G" (Black Backing with White Speckles and Blue Font) (Chrysotile)



**Photo 174**

K5294

2nd Deck, 2SA, CB5 Cargo Tank Gauging 880.12.00.018, Gasket (Black with White Speckles) (Chrysotile)



**Photo 175**

K5297

2nd Deck, 2SA, HC2 I.G. Ref Comp. 568.21.01.001 F/Top Cover, Gasket (Chrysotile)



**Photo 176**

K5300

2nd Deck, 2SA, BF7 Main Boilers Door Joint (Furnace Out) 680.01.01.G01, Lagging "Tombo" (Chrysotile)



**Photo 177**

K5304

2nd Deck, 2SA, Below Gas Alarm Motor Penetration, Packing (Chrysotile)



**Photo 178**

K5306

2nd Deck, 2SA, No.1 Exhaust Fane Valve, Gasket (Chrysotile)



**Photo 179**

K5314

2nd Deck, Workshop Loft, Small Grey Metal Box Beneath Black Crate Containing Brass Valves, Gasket (Bonnet) (Chrysotile)



**Photo 180**

K5317

2nd Deck, Workshop Loft, Small Wooden Crate, Gasket Adhered to White Valve (Chrysotile)



**Photo 181**  
K5319  
2nd Deck, Workshop Loft, Small Wooden Crate, Debris (Mixed) (Chrysotile)



**Photo 182**  
K5321  
2nd Deck, Workshop Loft, Large Yellow Metal Box White Valve, Gasket Adhered to Valve (Chrysotile)



**Photo 183**  
K5324  
2nd Deck, Workshop Loft, Small Red Metal Box, Gasket Adhered to Silver Valve (Chrysotile)



**Photo 184**  
K5325  
2nd Deck, Workshop Loft, Small Red Metal Box, Debris (Mixed) (Chrysotile)



**Photo 185**  
K5328  
3rd Deck, Workshop Mezzanine, Large Wooden Crate Stored Large Valves, Brass Valve Bonnet, Gasket (Chrysotile)



**Photo 186**  
K5329  
3rd Deck, Workshop Mezzanine, Port Aft Penetration, Packing (Grey/Cream) (Chrysotile)



**Photo 187**  
K5335  
3rd Deck, Workshop, Work Bench Adjacent Wooden Block, Caged Floor Area (Aft), Debris (Mixed) (Chrysotile)



**Photo 188**  
K5338  
3rd Deck, Workshop, Gasket Drawer Bench Top, Stored Valve, Gasket Adhered to Valve (Chrysotile)



**Photo 189**  
K5347  
3rd Deck, Workshop, Storage Rack, Gasket Sheet "Titan" (Grey Backing Silver Font) (Chrysotile)



**Photo 190**  
K5348  
3rd Deck, Workshop, Storage Rack, Gaskets Loose "Tombo 1000" Tan Backing Black Font (Chrysotile)



**Photo 191**  
K5350  
3rd Deck, Workshop, Graphite Stand, Gasket Loose "Tombo" (Blue Backing White Specks Black Font) (Chrysotile)



**Photo 192**  
K5352  
3rd Deck, Workshop, Packing Cabinet 4th Shelf, Packing "ADJ" #183 (Chrysotile)



**Photo 193**

K5353

3rd Deck, Workshop, Packing Cabinet 4th Shelf, Packing "Pillar Packing" Feed Pump Exhaust Valve (Chrysotile)



**Photo 194**

K5359

3rd Deck, Workshop, ARC Welder Connection Box Power Inlet (Welding Booth), Putty (Chrysotile)



**Photo 193**

K5353

3rd Deck, Workshop, Packing Cabinet 4th Shelf, Packing "Pillar Packing" Feed Pump Exhaust Valve (Chrysotile)



**Photo 194**

ZA7879

2nd Deck, Gasket - 2SA - DE3 - Temperature prob (Chrysotile)



**Photo 195**

ZA7520

3rd Deck, No.2 Diesel Generator Temp Guage Gasket (Chrysotile)



**Photo 196**

ZA7519

No.2 Diesel Generator Air Cooler Water Gasket (Chrysotile)



**Photo 197**  
ZA7513  
3rd Deck, No.3 Steering Gear Pump Fwd , Putty (Chrysotile)



**Photo 198**  
ZA11585  
Tank Top, Penetration to Cables Adjacent Atmospheric Drains, Putty (Chrysotile)



**Photo 199**  
ZA11590  
Tank Top, Engine Room, Stern Tune Berance Line, Gasket (Chrysotile)



**Photo 200**  
ZA11579  
Tank Top, Telephone Booth Adjacent Stairs to 4th Deck – Fibre Board (Chrysotile)



**Photo 201**  
ZA11574  
3rd Deck, Workshop Phonebooth Sheeting (Chrysotile)

## APPENDIX A: ASBESTOS REGISTER

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<b>Surveyor:</b> Sam Martin	<b>Survey Type:</b> Asbestos Survey Type 2 (Partial re-inspection and refit survey)	<b>Date of Survey:</b> 31st October -1st November 2023
<b>Site Contact:</b> Chief Engineer	<b>Vessel:</b> Northwest Sanderling IMO:8608872	<b>Review Date:</b> 31st October 2024 ( Full re-inspection still due and has not been completed)

Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
<b>Tank Top/Lower Deck</b>												
ACM	Gasket	Engine Room, VPJ44	-	H6530	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, VPJ44	-	H6531	0	-	-	-	-	-	Nil	
ACM	Putty	Engine Room, Atmos. Drain Tank Pump Start Switch (Auto Level)	1	H6532	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Atmos. Drain Tank Pump Start Switch No. P2 SQ61	-	H6533	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.2 Condensate Pump Casing	-	H6534	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.1 Condensate Pump Inlet Valve Flange	-	H6535	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Atmos. Drain Tank - Vent Valve Flange	-	H6536	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Atmos. Drains Pump No.1 Pump Casing	-	H6537	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, L.O. Cooler Starboard End Cover	-	H6538	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, L.O. Cooler - L.O. Inlet Valve Flange	-	H6539	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, AUX Circulation Pump - Inlet Valve Flange	-	H6540	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, AUX Circulation Pump - Casing	-	H6541	0	-	-	-	-	-	Nil	
ACM	Putty	Engine Room, Electrical Cable Conduit Above No.1 Atmos Drain Pump	2	H6542	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, AUX. Condenser Port End Cover	-	H6543	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Atmos Drain Tank Inlet Manifold Vent Line Valve Flange	3	H6544	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

<b>Surveyor:</b> Sam Martin	<b>Survey Type:</b> Asbestos Survey Type 2 (Partial re-inspection and refit survey)	<b>Date of Survey:</b> 31st October -1st November 2023
<b>Site Contact:</b> Chief Engineer	<b>Vessel:</b> Northwest Sanderling IMO:8608872	<b>Review Date:</b> 31st October 2024 ( Full re-inspection still due and has not been completed)

Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Engine Room, AUX. Condenser Drain Line to Atmos Drain Tank Temp Sensor	4	H6545	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Putty	Engine Room, No.2 Ballast Pump (Electrical) Power Cable to Junction AUX.	5	H6546	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, VPJ50 - Spool Flange	-	H6547	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, VPJ49 -Flange	6	H6548	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Loose Ballast Line Spool Piece (Under Evap Ejector Pumps	-	H6549	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.1 Cargo Ballast Pump Port Inlet Flange	-	H6550	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Ballast Line Flange Inboard of VPJ51 FWD of No.1 Ballast Pump	-	H6551	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Bilge and General Service Pump - Casing Joint	-	H6552	0	-	-	-	-	-	Nil	
ACM	Putty	Engine Room, Bilge and General Service Pump - Conduit	7	H6553	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Fire Bilge and General Service Pump Suction Valve Flange	-	H6554	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Fire Bilge and General Service Pump 2nd Inlet Flange	-	H6555	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Pump Adj. Pump Under Walkway Pipe Flange	-	H6556	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Controller Isolation V-PF168 Dump STM Water Spray Inlet Valve	8	H6557	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Engine Room, Condenser Steam Inlet - Port	-	H6558	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Condenser S.W. Outboard Isolation Valve Flange	-	H6559	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Sep. Bilge Oil Tank High Level Float Alarm Flat Switch	-	H6560	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Sep. Bilge Oil Tank Estanta Valve Bod	-	H6561	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Sep. Bilge Oil Tank Steam Heating Isolation Valve	-	H6562	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Oily Water Sep. Pipework	-	H6563	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Propeller Shaft - Aft Bearing Cap	-	H6564	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Propeller Shaft - FWD Bearing Cap	-	H6565	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Bilge Pump	-	H6566	0	-	-	-	-	-	Nil	
ACM	Putty	Engine Room, Bilge Pump Conduit	9	H6567	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Stern Tube Face Plate	-	H6568	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Oily Water Sep. Pump	-	H6569	-	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Stern tube Header Tank Aft - Non Flow Alarm - Decommissioned	-	H6570	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Stern Tube Filling Line Valve Flange	10	H6571	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Junction Box - Aft Bulkhead	11	H6572	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, FWD Seal Oil Pressure Pump Pipework Flange	-	H6573	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Engine Room, Oily water Sep. Ship Side Overboard Discharge Valve	-	H6574	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Stern Tube L.O. Cooler End Cover	-	H6575	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Fire Hydrant - Starboard No.76	-	H6576	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Condenser Drain Valve Starboard	-	H6577	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Lube Oil Gear Tank Level Switch Flange	-	H6578	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Flange Near Scoop Isolation Valve Handle - Dosing Line	-	H6579	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Main Circulation Connection Flange to Scoop	-	H6580	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Main Circulation Pump Casing	-	H6581	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Fuel Oil Sludge Tank High Level Switch	-	H6582	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, AUX. C.C.S Cooling SW Pump Out Manifold	-	H6583	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Sludge Oil Transfer Pump Flange Relief Valve	12	H6584	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Putty	Engine Room, Between No.1 7 No.2 Main C.C.S Cooling S.W. Pumps	13	H6585	1	0	1	1	0	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Pipe Diameter Adapter - Telephone Booth	-	H6586	0	-	-	-	-	-	Nil	
ACM	Fibre Board	Engine Room, Telephone Booth - Perforated Cladding Presumed Throughout	14	H6587	1	2	2	1	1	7	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Main L.O. Filter Bypass Valve	15	H6588	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Engine Room, Sight Glass - Main L.O.. System - Drain Sight Pump	-	H6589	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Condensate Line Near L.O.. "Leak Off Tank" Sign	-	H6590	0	-	-	-	-	-	Nil	
ACM	Lagging	Engine Room, Evap. Educator Pump Discharge Flange & Water Spray	-	H6591	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Educator Pump Inlet Flange	-	H6592	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Condensate S.W. Side Vent (Port) Pipeline Flange	-	H6594	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Sep. Bilge Oil Tank Top Cover of Level Gauge	No Photo	H6595	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removelist Contractor (LARC)
ACM	Valve Gasket	Bilge System Gate Valve	-	C4770	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Sea Water Pipework	-	C4771	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Bilge Pump System	-	C4772	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Pressure Vessel	-	C4773	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	Fuel Oil Sludge Tank Inlet Pipework	-	C4774	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fuel Oil Sludge Tank Outlet Pipework	-	C4775	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	L.O. System Gate Valve	-	C4776	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	L.O. System	-	C4777	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Bearing Gasket	Prop Shaft	-	C4778	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	SEP.BILGE.OIL.TK' Inlet Pipework	-	C4779	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	SEP.BILGE.OIL.TK' Outlet pipework	-	C4780	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Spare Gaskets	On Hand Rail Of Lower Catwalk	-	C4781	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	Main Fire Pump Feed	-	C4782	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Main Fire Pump Casing	-	C4783	0	-	-	-	-	-	Nil	
ACM	Gasket	Fire Line Pressurising Pump Injector Outlet	-	ZA7505	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Fire Line Pressurising Pump OH	-	ZA7504	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	ER Bulge pump Suction	-	ZA7503	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Insulation	Main Turbine Drain to Flash Chamber	-	ZA7502	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Distilled Plant Ejector Pump Outlet	-	ZA7501	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Seawater Vent Line Aux Condenser	-	ZA11583	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Putty	Penetration to Cables Adjacent Atmospheric Drains	198	ZA11585	1	0	1	2	0	5	A4	Seal, Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC) (Inspected & Sampled 2023)
ACM	Gasket	Drains Pump Pipework	-	ZA11584	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Loose Gasket	Top of Atoms Tank	-	ZA11586	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Main Condenser Spray Flange	-	ZA11587	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	First Stage Feed Heater Level Controller	-	ZA11588	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Calcium Block	Steam Line 1st Stage Water Heater	-	ZA11589	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Fibre Board	Engine Room, Telephone Booth Adjacent Stairs to 4th Deck	200	ZA11579	1	2	2	1	1	7	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (Inspected & Sampled 2023)

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
<b>Turbine Top</b>												
ACM	Gasket	Engine Room, Ahead Manoeuvring Valve	-	H6596	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Educator Water Spray Pump Valve Actuator Flange	-	H6593	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Gland Steam Condenser End Cover	-	H6597	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Gland Stena Condenser Vent Flange	-	H6598	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Sight Glass Flange Governor Impellor Header Tank	-	H6599	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Governor Impellor Header Tank Float Switch Flange	-	H6600	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Temp Sensor Aft of Telephone Box	-	H6601	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Stern Tune Berance Line	199	ZA11590	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (Inspected & Sampled 2023)
ACM	Gasket	Engine Room, Scupper Drain to Aft Bulge	-	ZA11591	0	-	-	-	-	-	Nil	(Inspected & Sampled 2023)
ACM	Gasket	Engine Room, No 1 CCS Seawater Pump Suction	-	ZA11580	0	-	-	-	-	-	Nil	(Inspected & Sampled 2023)
<b>4th Deck</b>												
ACM	Gasket	Purifier Room, Transfer Pump Cross Pipework	-	ZA11581	0	-	-	-	-	-	Nil	(Inspected & Sampled 2023)
ACM	Fibre Board	Purifier Room, Tool Shadow Board	-	H6602	0	-	-	-	-	-	Nil	
ACM	Gasket	Purifier Room, D.O. Transfer Pump Cross Connection Valve Bonnet	16	H6603	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Purifier Room, HFO Transfer Pump Cross Connection Valve Bonnet	17	H6604	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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ACM	Gasket	Engine Room, Hotwell/Observation Tank Viewing Glass Gasket	18	H6605	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Sight Glass Bulge Primary Tank	-	ZA11578	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Engine Room, Cathelco Cable Penetration	-	ZA11577	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Engine Room, Drains Cooler End Cover	-	H6606	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Drain Manifold - 2nd from Left	-	H6607	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Stern Tube Sealing Tank Lid	-	H6608	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Vent Pipe Flange	-	H6609	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Stern Tube Sealing Tank Drain Valve	-	H6610	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.2 Cascade Controller Motor Flange	-	H6611	0	-	-	-	-	-	Nil	
ACM	Putty	Engine Room, No.2 Cascade Controller Conduit	19	H6612	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, No.1 F.W. Pump Outlet Valve Bonnet	-	H6613	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.1 F.W. Pump Outlet Flange	-	H6614	0	-	-	-	-	-	Nil	
ACM	Gasket Loose	Engine Room, Evap. Spool	-	H6615	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, F.W. Pipeline Isolation Valve	-	H6616	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Bilge Primary Tank Level Indicator, Sight Glass	20	H6617	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Bilge Primary Tank Vent Pipe Flange	-	H6618	0	-	-	-	-	-	Nil	

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ACM	Gasket	Engine Room, No.2 Feed Pump Cooling Water	21	H6619	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Putty	Engine Room, Electric Lighting EL7 Conduit	No Photo	H6621	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Electric Feed Pump - Cooling Water Sight Glass Flange	-	H6622	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.2 Vacuum Pump - Suction Inlet Flange	-	H6623	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.2 Vacuum Pump on Cooler - End Cover	-	H6624	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.1 Vacuum Pump Suction Valve Inlet Flange	-	H6625	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.2 Degreaser Atmos. Drain Tank Inlet Flange	-	H6626	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.1 Degreaser - Drain Flange	-	H6627	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Service Air Receiver - Outlet Valve Flange	-	H6628	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Service Air Receiver - Auto Drain Valve Bonnet	-	H6629	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.1 Control Air Dryer Inlet Valve Flange	No Photo	H6630	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Hychlorinator - Main Circulation Valve	-	H6631	0	-	-	-	-	-	Nil	
ACM	Putty	Engine Room, Hychlorinator Power Inlet	22	H6632	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket Material Adhered to Spectacle Piece	Engine Room, No.1 Evap Walkway	-	H6633	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Dump Steam to Main Condenser Valve to Bonnet	-	H6634	0	-	-	-	-	-	Nil	

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ACM	Gasket	Engine Room, Fire Hydrant Valve Flange Adj. Lift	-	H6635	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Turbo Alternator Motorised Exhaust Valve Flange	-	H6636	0	-	-	-	-	-	Nil	
ACM	Valve Gasket	Dump Steam Control Valve	-	C4753	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Valve Gasket	Dump Steam Control Valve	-	C4754	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	No. 3 'Main.CCS.Cool.F.W.Pump' System	-	C4755	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	No. 3 'Main.CCS.Cool.F.W.Pump' System Gate Valve	-	C4756	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Hychlorator System Inlet Pipework	-	C4757	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Hychlorator System Outlet Pipework	-	C4758	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Hychlorator System Butterfly Valve	-	C4759	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Valve Gasket	Hychlorator System Butterfly Valve	-	C4760	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Control Air Receiver Inlet pipework	-	C4761	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Control Air Receiver Outlet pipework	-	C4762	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Grease Extractor Pipework	-	C4763	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar
ACM	Valve Gasket	Grease Extractor 'Hot Lines' Gate Valve	-	C4764	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Sight Glass Gasket	Primary Bilge Tank Fill Level Indicator	-	C4765	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Primary Bilge Tank Pipe Work Reducer	-	C4766	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Bilge Pipework	-	C4767	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Fresh Water Pipework	-	C4769	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Oil Separator System Gate Valve	-	C4768	0	-	-	-	-	-	Nil	Surveyed December 2013
<b>ACM</b>	<b>Gasket</b>	<b>Crank Case Cover Purifier 1</b>	-	<b>ZA7509</b>	<b>0</b>	-	-	-	-	-	<b>Nil</b>	<b>Inspected &amp; Sampled 2023</b>
ACM	Gasket	Oil Outlet Hose Purifier 1	-	ZA7508	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	No 2 Vacuum Pump Cooler Aft	-	ZA7507	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Cooling Water Supply Clean Drains Tank	-	ZA11582	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Hychlorator Scoop Supply	-	ZA7506	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
<b>3rd Deck</b>												
ACM	Lining	Lift Motor Room, Braking System Friction Material	23	H6637	1	1	1	1	3	7	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Packing	Lift Motor Room, Penetration	24	H6638	1	1	1	1	2	6	A4	Recommended actions are to encapsulate, label and program for planned removal during refit; manage & re-inspect for damage periodically.  Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action due to mechanical action during maintenance, refurbishment or breaking up of the vessel.  This item is recommended to be removed by an "Unrestricted" Licensed Asbestos Removalist Contractor (LARC) owing to the friability of the product during removal.
ACM	Gasket	Engine Room, Diesel Alternator Air Receiver Outlet Valve Flange	-	H6639	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Engine Room, Diesel Alternator Air Receiver Outlet Valve Flange	-	H6640	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Diesel Alternator L.O.. Cooler End Cover	25	H6641	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removallist Contractor (LARC)
ACM	Gasket	Engine Room, Diesel Alternator Inlet Trip Valve Bonnet	-	H6642	0	-	-	-	-	-	Nil	
ACM	Fabric	Engine Room, Diesel Alternator Sealing Steam	-	H6643	0	-	-	-	-	-	Nil	
ACM	Putty	Engine Room, Diesel Alternator Junction Box JB-1	26	H6644	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removallist Contractor (LARC)
ACM	Packing	Engine Room, Diesel Alternator Penetration Below Junction Box JB-1	No Photo	H6645	P1	1	1	1	2	6	A4	Recommended actions are to encapsulate, label and program for planned removal during refit; manage & re-inspect for damage periodically.  Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.  This item is recommended to be removed by an 'Unrestricted ' Licensed Asbestos Removallist Contractor (LARC) owing to the friability of the product during removal.
ACM	Gasket	Engine Room, Diesel Alternator Electrical L.O.. Priming Pump Flange	-	H6646	0	-	-	-	-	-	Nil	
ACM	Putty	Engine Room, Diesel Alternator Electrical (x16) Cables Outlet	27	H6647	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removallist Contractor (LARC)
ACM	Gasket	FWD Bulkhead Pipe Work Flange	-	H6648	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Engine Room, Turbine Oil Gravity Tank Level Sight Glass	28	H6649	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Turbine Oil Gravity Tank Level Overflow Sight Glass	29	H6650	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Turbine Oil Gravity Tank Level Sight Glass	30	H6651	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket Loose "No Label"	Engine Room, Box of Blanks Adj. IGG Room	-	H6652	0	-	-	-	-	-	Nil	
ACM	Gasket Loose "No Label"	Engine Room, Box of Blanks Adj. IGG Room	-	H6653	0	-	-	-	-	-	Nil	
ACM	Gasket Remnant material Attached to Flange	Engine Room, Shipside Storage - Near Pipe Rack - Valve F10-50 With Pipework Attached	-	H6654	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Water Mist System Pump Discharge Valve Flange	-	H6655	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Water Mist System Pump Discharge to Tank Elbow Flange	-	H6656	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Port Domestic F.W.. Tank Low Level Switch Flange	31	H6657	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Domestic F.W.. Receiver Air Inlet Flange	-	H6658	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room Fire Fighting F.W.. Pressure Tank Pump Outlet Flange	-	H6659	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.2 Domestic F.W.. Tank Low Level Switch Flange	-	H6660	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, No.1 Distilled Water Tank Low Level Switch Flange	32	H6661	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Engine Room, Sewage System No.2 Pump Discharge Pipe Flange	-	H6662	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Clean Oil Tank Level Sight Glass	33	H6663	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, L.O.. Daily Tank Level Sight Glass	34	H6664	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Compressor Oil Tank Level Sight Glass	35	H6665	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Fire Hydrant No.74 Flange	-	H6666	0	-	-	-	-	-	Nil	
ACM	Gasket	IGG Room, HFO Tank Steam Heating Valve Flange	36	H6667	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	IGG Room, Inert Glass Plant - Nitrogen Receiver Air Inlet Valve Flange	-	H6668	0	-	-	-	-	-	Nil	
ACM	Gasket	IGG Room, No.1 Compressor Outlet Valve Flange	-	H6669	0	-	-	-	-	-	Nil	
ACM	Gasket	IGG Room, Nitrogen Generator Outlet Valve Flange	-	H6670	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Packing	IGG Room, Conduit from Junction Box JP-VPM	No Photo	H6671	P1	1	1	1	2	6	A4	<p>Recommended actions are to encapsulate, label and program for planned removal during refit; manage &amp; re-inspect for damage periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>This item is recommended to be removed by an 'Unrestricted " Licensed Asbestos Removalist Contractor (LARC) owing to the friability of the product during removal.</p>
ACM	Packing	IGG Room, No.2 Air Compressor Power Cables Conduit	-	H6672	P1	1	1	1	2	6	A4	<p>Recommended actions are to encapsulate, label and program for planned removal during refit; manage &amp; re-inspect for damage periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>This item is recommended to be removed by an 'Unrestricted " Licensed Asbestos Removalist Contractor (LARC) owing to the friability of the product during removal.</p>
ACM	Gasket	IGG Room, Burner End Cover	37	H6673	1	0	2	1	0	5	A4	<p>Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)</p>
ACM	Gasket	IGG Room, Spray water Manifold End Cover	-	H6674	0	-	-	-	-	-	Nil	

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ACM	Putty	IGG Room, Junction Box Adj. Door	38	H6675	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	No.1 Diesel Generator Room, L.O.. Priming Pump Outlet Flange	39	H6676	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	No.1 Diesel Generator Room, Charge Air Cooler Air Inlet Flange	-	H6677	0	-	-	-	-	-	Nil	
ACM	Putty	No.1 Diesel Generator Room, Power Cables from Alternator	40	H6678	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	No.1 Diesel Generator Room, Exhaust Gasket at Turbocharger	-	H6679	0	-	-	-	-	-	Nil	
ACM	Gasket	No.1 Diesel Generator Room, Cooling Water Line - L.O.. Cooler Inlet Flange	41	H6680	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	No.2 Diesel Generator Room, Exhaust Gasket at Turbo Charger	-	H6681	0	-	-	-	-	-	Nil	
ACM	Putty	No.2 Diesel Generator Room, Power Cables from Alternator	42	H6682	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	No.2 Diesel Generator Room, Cooling Water to Filter Flange	-	H6683	0	-	-	-	-	-	Nil	
ACM	Gasket	No.2 Diesel Generator Room, Temperature Sensor - Charge Air Cooler	49	H6684	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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ACM	Gasket	No.2 Diesel Generator Room, Exhaust Gasket at Charge Air Cooler	50	H6685	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Steering Flat, Hydraulic Storage Oil Tank Level Gauge Glass	-	H6686	0	-	-	-	-	-	Nil	
ACM	Gasket	Steering Flat, Transfer Oil Tank Level Gauge Glass	51	H6687	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Steering Flat, Overflow Tank Level Gauge Glass	52	H6688	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Steering Flat, Hydraulic Transfer Pump Discharge Valve Flange	-	H6689	0	-	-	-	-	-	Nil	
ACM	Gasket	Steering Flat, Overflow Tank Filling Glass Flange	53	H6690	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Steering Flat, Storage Tank S2V68 Sight Level Glass	54	H6691	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Steering Flat, Starboard Header Tank, Sight Level Glass	-	H6692	0	-	-	-	-	-	Nil	
ACM	Gasket	Steering Flat, Starboard Header Tank Level Switch	55	H6693	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Steering Flat, Starboard Header Tank Filling Line	-	H6694	0	-	-	-	-	-	Nil	
ACM	Gasket	Steering Flat, Port Header Tank Level Site Glass	-	H6695	0	-	-	-	-	-	Nil	

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ACM	Gasket	Steering Flat, Port Header Tank Level Switch	56	H6696	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Steering Flat, Port Header Tank Filling Line	-	H6697	0	-	-	-	-	-	Nil	
ACM	Gasket	Steering Flat, F.W.. Pup Discharge Manifold End Cover	-	H6698	0	-	-	-	-	-	Nil	
ACM	Gasket	Steering Flat, Helicopter Foam Valve Bonnet	-	H6699	0	-	-	-	-	-	Nil	
ACM	Gasket	Steering Flat, Fire Hydrant Pipe Work Flange	-	H6700	0	-	-	-	-	-	Nil	
ACM	Putty	Steering Flat, Power Cable Conduit Aft Winch Electrical Cabinet	56	H6701	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Steering Flat, Hydraulic Valve Bonnet	57	H6702	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	3rd Deck, Port Gas Hood Boiler Gas Valve Flange Gasket		H6703	0	-	-	-	-	-	Nil	
ACM	Gasket	3rd Deck, Starboard Gas Hood Boiler Gas Valve Flange Gasket		H6704	0	-	-	-	-	-	Nil	
ACM	Gasket	3rd Deck Starboard Gas Hood Master Vent Valve Flange Gasket		H6705	0	-	-	-	-	-	Nil	
ACM	Gasket	3rd Deck Burner Tops Port Boiler Air Heater (FWD) Flange Gasket		H6706	0	-	-	-	-	-	Nil	
ACM	Gasket	3rd Deck Burner Tops Casing to Air Box (FWD) Flange Gasket	No Photo Available	H6707	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	3rd Deck Soot Blower and Economiser Cooling Air Pipe Flange (Port Boiler) Gasket		H6708	0	-	-	-	-	-	Nil	

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ACM	Putty	3rd Deck Burner Tops Starboard Boiler Soot Blower & Economiser Cooling Air Pipe Putty	No Photo Available	H6709	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	3rd Deck Burner Tops Starboard Boiler Aft End Cover Gasket		H6710	0	-	-	-	-	-	Nil	
ACM	Gasket	3rd Deck Burner Tops Starboard Boiler Periscope Gasket	No Photo Available	H6711	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	3rd Deck, Burner Tops, Aft Control Air Manifold valve Gasket		H6712	0	-	-	-	-	-	Nil	
ACM	Putty	3rd Deck Burner Tops Starboard Boiler Conduit No.5 Soot Blower Junction Box Putty	No Photo Available	H6713	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Flange Gasket	Hot Foam System	-	C4784	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Hot Foam System Butterfly Valve	-	C4785	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Mooring Winch Hydraulic System	-	C4786	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Mooring Winch Hydraulic Pump	-	C4787	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Sight Glass Gasket to Hydraulic Oil Tank Fill Level Indicator	Bosun Store	-	C4788	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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ACM	Flange Gasket	Steering Hydraulic Systems	-	C4789	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Sight Glass Gasket to Fill Level Indicator	Hydraulic Header Tank 1, Bosun Store	-	C4790	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Sight Glass Gasket to Fill Level Indicator	Hydraulic Header Tank 2, Bosun Store	-	C4791	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Sight Glass Gasket to Fill Level Indicator	Steering Gear Storage Tank, Bosun Store	-	C4792	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Tank Plate Gasket	Steering Gear Storage Tank, Inspection Plate	-	C4793	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Below Hand Pump On Steering Gear Storage Tank	-	C4794	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Hydraulic System	-	C4795	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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<b>Site Contact:</b> Chief Engineer	<b>Vessel:</b> Northwest Sanderling IMO:8608872	<b>Review Date:</b> 31st October 2024 ( Full re-inspection still due and has not been completed)

Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Lube Ball Controller No 1 DB	-	ZA11576	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Lube Ball Cooler No 2 DB	-	ZA11575	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Engine Room, Port Boiler, FWD Viewing Porthole	-	H6718	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Port Boiler (In Between Boilers) Aft Viewing Porthole	-	H6719	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Starboard Boiler (In Between Boilers) Aft Viewing Porthole	-	H6720	0	-	-	-	-	-	Nil	
ACM	Putty	Engine Room, Port Boiler No.1 Retractable Soot Blower Power Junction Box	63	H6721	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Putty	Engine Room, Starboard Boiler No.1 Retractable Soot Blower Power Junction Box	64	H6722	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Workshop Mezzanine, Large Red Fibreglass Box Large Valve Storage, Valve Bonnet	-	K5326	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Workshop Mezzanine, Large Red Fibreglass Box Large Valve Storage, Valve Bonnet	-	K5327	0	-	-	-	-	-	Nil	
ACM	Gasket	Workshop Mezzanine, Large Wooden Crate Stored Large Valves, Brass Valve Bonnet	185	K5328	4	0	2	4	0	5	A4	Item removed from service by Unrestricted Licensed Contractor PCB Holding Pty Ltd

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Packing (Grey/Cream)	Workshop Mezzanine, Port Aft Penetration	186	K5329	1	1	1	1	2	6	A4	<p>Recommended actions are to encapsulate, label and program for planned removal during refit; manage &amp; re-inspect for damage periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>This item is recommended to be removed by an 'Unrestricted' Licensed Asbestos Removalist Contractor (LARC) owing to the friability of the product during removal.</p>
ACM	Debris (Mixed)	Workshop Mezzanine, Starboard FWD, Cream Metal Box Labelled "No.328-2/2"	-	K5330	0	-	-	-	-	-	Nil	
ACM	Gasket	Workshop Mezzanine, Starboard FWD Stored Large Silver Valve Bonnet	-	K5331	0	-	-	-	-	-	Nil	
ACM	Gasket	Workshop Mezzanine, Old Valves box	-	ZA11572	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Silver Gasket	Workshop Mezzanine, Old Valves box	-	ZA11573	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Plasterboard	Workshop Mezzanine, Back Wall Panel	-	ZA11571	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Workshop Mezzanine, Starboard FWD Drain Line Flange	-	K5332	0	-	-	-	-	-	Nil	
ACM	Gasket	Workshop Mezzanine, Drain Pipe	-	K5333	0	-	-	-	-	-	Nil	
ACM	Gasket	Workshop Mezzanine, Starboard FWD Float Switch PZSQ TK(S) L.A.V.H.	-	K5334	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Fibre Board	Workshop Phonebooth Sheeting	201	ZA11574	1	1	1	1	2	6	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (Inspected & Sampled 2023)
ACM	Debris (Mixed)	Workshop, Work Bench Adjacent Wooden Block, Caged Floor Area (Aft)	187	K5335	4	2	2	3	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Debris (Mixed)	Workshop, Work Bench Adjacent Wooden Block, Caged Floor Area (FWD)	-	K5336	0	-	-	-	-	-	Nil	
ACM	Debris (Gaskets)	Workshop, Wooden Cutting Block	-	K5337	0	-	-	-	-	-	Nil	
ACM	Gasket Adhered to Valve	Workshop, Gasket Drawer Bench Top, Stored Valve	188	K5338	4	2	2	3	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Gasket (Loose, Green)	Workshop, Gasket Drawer Bench Top, Stored Item	-	K5339	0	-	-	-	-	-	Nil	
ACM	Debris	Workshop, Gasket Drawers, Bench	-	K5340	0	-	-	-	-	-	Nil	
ACM	Insulation	Workshop, Gasket Drawers, Bench, Heating Plate "Jet"	-	K5341	0	-	-	-	-	-	Nil	
ACM	Debris	Workshop, Gasket Drawers 1st	-	K5342	0	-	-	-	-	-	Nil	
ACM	Debris	Workshop, Gasket Drawers 2nd	-	K5343	0	-	-	-	-	-	Nil	
ACM	Debris	Workshop, Gasket Drawers 3rd	-	K5344	0	-	-	-	-	-	Nil	
ACM	Debris	Workshop, Gasket Drawers 4th	-	K5345	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Debris	Workshop, Gasket Drawers 5th	-	K5346	0	-	-	-	-	-	Nil	
ACM	Gasket Sheet "Titan" (Grey Backing Silver Font)	Workshop, Storage Rack	189	K5347	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gaskets Loose "Tombo 1000" Tan Backing Black Font	Workshop, Storage Rack	190	K5348	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Debris	Workshop, Storage Rack No.4	-	K5349	0	-	-	-	-	-	Nil	
ACM	Gasket Loose "Valqua 1500"	Workshop, Storage Rack, Deck Level	No Photo	Refer to K5260	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket Loose "Tombo" (Blue Backing White Specks Black Font)	Workshop, Graphite Stand	191	K5350	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Packing "Pillar" Labelled "Non Asbestos" 6527L	Workshop, Packing Cabinet 4th Shelf	-	K5351	0	-	-	-	-	-	Nil	
ACM	Packing "ADJ" #183	Workshop, Packing Cabinet 4th Shelf	192	K5352	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Packing "Pillar Packing" Feed Pump Exhaust Valve	Workshop, Packing Cabinet 4th Shelf	191	K5353	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket Inbuild Adhered to Valve (Drain Valves)	Workshop, Under Bench Adjacent the Phone Booth	-	K5354	0	-	-	-	-	-	Nil	
ACM	Gasket (Inbuild)	Workshop, Bench Adjacent the Phone Booth Stored Valve Flange	-	K5355	0	-	-	-	-	-	Nil	
ACM	Gasket	Workshop, Bench Adjacent the Phone Booth Stored Valve Bonnet	-	K5356	0	-	-	-	-	-	Nil	
ACM	Gasket	Workshop, Bench Adjacent the Phone Booth Stored Valve Bonnet	-	K5357	0	-	-	-	-	-	Nil	
ACM	Putty Branded "Rainbow"	Workshop, Modelling Clay Draw	-	K5358	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Packing	Workshop, Dainichi DLG-SH Lathe Power to deck	193	K5360	1	1	1	1	2	6	A4	<p>Recommended actions are to encapsulate, label and program for planned removal during refit; manage &amp; re-inspect for damage periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>This item is recommended to be removed by an "Unrestricted " Licensed Asbestos Removalist Contractor (LARC) owing to the friability of the product during removal.</p>
ACM	Lagging Material	Workshop Loft, Storage Rack (Aft)	-	K5307	0	-	-	-	-	-	Nil	
ACM	Gasket Material Adhered to Valve (Pink)	Workshop Loft, Yellow Metal Box	-	K5308	0	-	-	-	-	-	Nil	
ACM	Gasket Loose Fragments Green	Workshop Loft, Yellow Metal Box	-	K5309	0	-	-	-	-	-	Nil	
ACM	Debris (Mixed)	Workshop Loft, Yellow Metal Box	-	K5310	0	-	-	-	-	-	Nil	
ACM	Gasket Adhered to Valve (Green) Inbuild	Workshop Loft, Yellow Metal Box	-	K5311	0	-	-	-	-	-	Nil	
ACM	Debris (Mixed)	Workshop Loft, Small Grey Box Containing Valve Wheels	-	K5312	0	-	-	-	-	-	Nil	
ACM	Gasket Adhered to Valve (Green) Inbuild	Workshop Loft, Black Plastic Crate , White Valve Blue Handle	-	K5313	0	-	-	-	-	-	Nil	
ACM	Gasket (Bonnet)	Workshop Loft, Small Grey Metal Box Beneath Black Crate Containing Brass Valves	179	K5314	4	0	2	4	0	5	A4	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Debris (Mixed)	Workshop Loft, Small Grey Metal Box Beneath Black Crate Containing Brass Valves	-	K5315	0	-	-	-	-	-	Nil	
ACM	Debris (Mixed)	Workshop Loft, White Metal Box	-	K5316	0	-	-	-	-	-	Nil	
ACM	Gasket Adhered to White Valve	Workshop Loft, Small Wooden Crate	180	K5317	4	2	2	3	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket Adhered to Valve	Workshop Loft, Small Wooden Crate	-	K5318	0	-	-	-	-	-	Nil	
ACM	Debris (Mixed)	Workshop Loft, Small Wooden Crate	181	K5319	4	2	2	3	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Gasket Adhered to Valve (Pink)	Workshop Loft, Small Wooden Crate	-	K5320	0	-	-	-	-	-	Nil	
ACM	Gasket Adhered to Valve	Workshop Loft, Large Yellow Metal Box White Valve	182	K5321	4	2	2	3	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Gasket Adhered to Valve (Blue)	Workshop Loft, White Metal Box	-	K5322	0	-	-	-	-	-	Nil	
ACM	Debris (Mixed)	Workshop Loft, White Metal Box	-	K5323	0	-	-	-	-	-	Nil	
ACM	Gasket Adhered to Silver Valve	Workshop Loft, Small Red Metal Box	183	K5324	4	2	2	3	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Debris (Mixed)	Workshop Loft, Small Red Metal Box	184	K5325	4	2	2	3	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Flange Gasket	Generator Turbine Steam Lines	-	C4723	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Cloth Insulation	Generator Turbine Steam Lines	-	C4724	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Hand Pump Gasket	Generator Turbine L.O. Hand Pump	-	C4725	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Generator Turbine L.O. System	-	C4727	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	No.1 Diesel Generator Room Water Coolant System	-	C4728	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	No.1 Diesel Generator Room Oil Cooler System	-	C4729	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	No.1 Diesel Generator Room Hydrant	-	C4730	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Inert Gas Generator Room, N2 Generator Control Gear	-	C4731	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Inert Gas Generator Room, No. 2 Line.	-	C4732	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Inert Gas Generator Room, N2 Buffer Tank Outlet	-	C4733	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Tank Plate Gasket	F.W.Press.TK' Inspection Plate	-	C4734	0	-	-	-	-	-	Nil	Surveyed December 2013
<b>ACM</b>	<b>Gasket</b>	<b>No1 Distilled Water Tank Outlet Pipe</b>	-	<b>ZA11565</b>	<b>0</b>	-	-	-	-	-	<b>Nil</b>	<b>Inspected &amp; Sampled 2023</b>
ACM	Flange Gasket	F.W.Press.TK' Outlet Pipework	-	C4735	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	F.W. System	-	C4736	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	F.W. Pump Gate Valve	-	C4737	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Gasket	Sewage Treatment Plant Overboard Discharge Pipe	-	ZA11566	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	Sewage Treatment System	-	C4738	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Sewage Treatment Gate Valve	-	C4739	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Laboratory, Pressure Vessel	-	C4740	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Black Gasket Material	Workshop - Storage Rack	-	C4741	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	<del>White Cloth Gasket Material</del>	<del>Workshop - Storage Rack</del>	-	C4742	4	4	2	0	3	7	A2	Removed. Source Clearance Certificate.
ACM	White Gasket Material	Workshop - Storage Rack	-	C4743	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Blue Gasket Material	Workshop - Storage Rack	-	C4744	0	-	-	-	-	-	Nil	Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Grey Gasket Material	Workshop - Storage Rack	-	C4745	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Blue Gasket Material	Workshop - Storage Rack	-	C4746	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Blue Gasket Material	Workshop - Storage Rack	-	C4747	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Sight Glass Gasket	No.2 Diesel Generator Room 'L.O.GRAV.TK' Fill Level Indicator	-	C4748	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Flange Gasket	No.2 Diesel Generator Room 'L.O.GRAV.TK' Outlet Pipework	-	C4749	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	No.2 Diesel Generator Room 'L.O.GRAV.TK' Outlet Control Valve	-	C4750	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Gasket	No.2 Diesel Generator Room Exhaust	-	ZA7521	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	No.2 Diesel Generator Temp Gauge	195	ZA7520	1	1	2	0	1	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (Inspected & Sampled
ACM	Gasket	No.2 Diesel Generator Air Cooler Water	196	ZA7519	1	1	2	0	1	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (Inspected & Sampled
ACM	Gasket	No.1 Diesel Generator Room Diesel Oil Return	-	ZA11567	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	No.1 Diesel Generator Room Turbine Filter Outlet	-	ZA7518	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	No.1 Diesel Generator Room Crankcase Vent 5	-	ZA7517	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	No.1 Diesel Generator Room Air Manifold Aft	-	ZA7516	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Main Steam Turbine BK4	-	ZA11568	0	-	-	-	-	-	Nil	Inspected & Sampled 2023

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Fresh Water Pressuring Tank Drain	-	ZA7515	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Gasket	Helicopter Deck Fifi Foam Pump Outlet	-	ZA7514	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
ACM	Putty	No.3 Steering Gear Pump Fwd	197	ZA7513	1	1	2	0	1	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (Inspected & Sampled)
ACM	Flange Gasket	SS Water Spray Control Manifold	-	C4751	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS Water Spray Control Manifold	-	C4752	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Generator Turbine Steam Lines	-	C4723	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Cloth Insulation	Generator Turbine Steam Lines	-	C4724	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Hand Pump Gasket	Generator Turbine L.O. Hand Pump	-	C4725	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Generator Turbine L.O. Cooler	-	C4726	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Generator Turbine L.O. System	-	C4727	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	No.1 Diesel Generator Room Water Coolant System	-	C4728	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	No.1 Diesel Generator Room Oil Cooler System	-	C4729	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	No.1 Diesel Generator Room Hydrant	-	C4730	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Inert Gas Generator Room, N2 Generator Control Gear	-	C4731	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Inert Gas Generator Room, No. 2 Line.	-	C4732	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Inert Gas Generator Room, N2 Buffer Tank Outlet	-	C4733	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Tank Plate Gasket	F.W.Press.TK' Inspection Plate	-	C4734	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	F.W.Press.TK' Outlet Pipework	-	C4735	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	F.W. System	-	C4736	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	F.W. Pump Gate Valve	-	C4737	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Sewage Treatment System	-	C4738	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Sewage Treatment Gate Valve	-	C4739	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Laboratory, Pressure Vessel	-	C4740	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Black Gasket Material	Workshop - Storage Rack	-	C4741	0	-	-	-	-	-	Nil	Surveyed December 2013
<b>ACM</b>	<b>Gasket</b>	<b>Workshop - Steam Inlet no2 Bunker Tank</b>	-	<b>ZA7512</b>	<b>0</b>	-	-	-	-	-	<b>Nil</b>	<b>Inspected &amp; Sampled 2023</b>
<b>ACM</b>	<b>Blue Gasket</b>	<b>Workshop - Loose Pump Casing Valve</b>	-	<b>ZA7511</b>	<b>0</b>	-	-	-	-	-	<b>Nil</b>	<b>Inspected &amp; Sampled 2023</b>
<b>ACM</b>	<b>Insulation</b>	<b>Workshop - Lab Sample Cooler Outlet</b>	-	<b>ZA7510</b>	<b>0</b>	-	-	-	-	-	<b>Nil</b>	<b>Inspected &amp; Sampled 2023</b>
ACM	White Cloth Gasket Material	Workshop - Storage Rack	-	C4742	4	4	2	0	3	7	A2	Removed. Source Clearance Certificate.
ACM	White Gasket Material	Workshop - Storage Rack	-	C4743	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Blue Gasket Material	Workshop - Storage Rack	-	C4744	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Grey Gasket Material	Workshop - Storage Rack	-	C4745	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Blue Gasket Material	Workshop - Storage Rack	-	C4746	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Blue Gasket Material	Workshop - Storage Rack	-	C4747	0	-	-	-	-	-	Nil	Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Sight Glass Gasket	No.2 Diesel Generator Room 'L.O.GRAV.TK' Fill Level Indicator	-	C4748	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Flange Gasket	No.2 Diesel Generator Room 'L.O.GRAV.TK' Outlet Pipework	-	C4749	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	No.2 Diesel Generator Room 'L.O.GRAV.TK' Outlet Control Valve	-	C4750	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	SS Water Spray Control Manifold	-	C4751	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS Water Spray Control Manifold	-	C4752	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
<b>2nd Deck</b>												
ACM	Putty	Engine Room, Starboard Boiler No.1 Retractable Soot Blower Power Junction Box	61	H6714	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Starboard Boiler Aft Viewing Porthole (Furnace)	-	H6715	0	-	-	-	-	-	Nil	
ACM	Putty	Engine Room, Port Boiler No.1 Retractable Soot Blower Power Junction Box	62	H6716	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	2PA, Aft Bulkhead Pipe	-	H6723	0	-	-	-	-	-	Nil	
ACM	Gasket	2PA, Aft Bulkhead Pipe	-	H6724	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	2PA, Bulkhead New Drums	-	H6725	0	-	-	-	-	-	Nil	
ACM	Gasket	2PA, OWS Valve	65	H6726	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Chemical Locker, Domestic Hot water System	-	H6727	0	-	-	-	-	-	Nil	
ACM	Putty	Chemical Locker, Halogen Light Junction Box	66	H6728	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Engine Room, Fire Hydrant Flange Adj. Monitor Room Door	-	H6729	0	-	-	-	-	-	Nil	
ACM	Gasket	IGG Room, F.W.. Valve Flange	-	H6730	0	-	-	-	-	-	Nil	
ACM	Gasket	<b>1 mpa pressure reducing valve</b>	-	<b>ZA7523</b>	<b>0</b>	-	-	-	-	-	Nil	<b>Inspected &amp; Sampled 2023</b>
ACM	Gasket	IGG Room, Cooler End Cover	-	H6731	0	-	-	-	-	-	Nil	
ACM	Gasket	IGG Room, Sight Glass Level	67	H6732	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	IGG Room, Compressor "05" Plate	-	H6733	0	-	-	-	-	-	Nil	
ACM	Gasket	IGG Room, Scrubber Outlet Pipe	-	H6734	0	-	-	-	-	-	Nil	
ACM	Gasket	Port, Fuel Oil Additive Tank Manhole Cover	68	H6735	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Port, Fuel Oil Additive Tank Sight Level Gauge	69	H6736	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Port, Fuel Oil Additive Tank Vent Line Flange	-	H6737	0	-	-	-	-	-	Nil	
ACM	Gasket	Port, Fuel Oil Additive Tank Sight Level Gauge Valve No.1 FOO.. Settling Tank	-	H6738	0	-	-	-	-	-	Nil	
ACM	Gasket	Port, Package Cooler F.W. Cooling Outlet Valve Flange	-	H6739	0	-	-	-	-	-	Nil	
ACM	Gasket	Port, Fuel Oil Additive Tank Manhole Cover (Top)	70	H6740	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Port, Fuel Oil Additive Tank Vent Line Pipe Work	-	H6741	0	-	-	-	-	-	Nil	
ACM	Gasket	Port, Package Cooler Inlet Valve Flange	71	H6742	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Packing (Hard)	Port, Package Cooler (Aft) Penetration Cables	No Photo	H6743	P1	1	1	1	2	6	A4	Recommended actions are to encapsulate, label and program for planned removal during refit; manage & re-inspect for damage periodically.  Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.  This item is recommended to be removed by an 'Unrestricted' Licensed Asbestos Removalist Contractor (LARC) owing to the friability of the product during removal.

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Packing (Soft)	Port, Package Cooler (Aft) Penetration Cables	No Photo	H6744	P1	1	1	1	2	6	A4	<p>Recommended actions are to encapsulate, label and program for planned removal during refit, manage &amp; re-inspect for damage periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>This item is recommended to be removed by an 'Unrestricted' Licensed Asbestos Removalist Contractor (LARC) owing to the friability of the product during removal.</p>
ACM	Gasket	Starboard, S.W. to Aux. Cooler in CMR Pipe	-	H6745	0	-	-	-	-	-	Nil	
ACM	Gasket	Starboard, Diesel Service Tank Level Gauge	-	H6746	0	-	-	-	-	-	Nil	
ACM	Gasket	Starboard, Diesel Service Tank Inlet Valve	-	H6747	0	-	-	-	-	-	Nil	
ACM	Gasket	Starboard, Aux. L.O. Purifying Tank (Small) & Aux L.O. Renovation Tank Sight Level Gauge	72	H6749	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Starboard, L.O. Renovation Tank (Small) Filling Line	73	H6750	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Starboard, L.O. Renovation Tank (Small) Manhole	74	H6751	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Starboard, L.O. Renovation Tank (Large) Gauge	-	H6752	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Diesel Oil Service Tank Float Level Switch (x3)	75	H6753	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	L.O. Storage Tank "F" Level Gauge Glass	76	H6754	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	L.O Storage Tank "F" Filling Valve Flange	-	H6755	0	-	-	-	-	-	Nil	
ACM	Gasket	L.O Storage Tank "A" Level Gauge Glass	77	H6756	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	D/G L.O. Storage Tank Level Gauge Glass	78	H6757	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	D/G L.O. Storage Tank Filling Valve	79	H6758	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Gen. Eng. L.O. Renovating Tank Side Manhole	80	H6759	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Gen. Eng. L.O. Renovating Tank Level Gauge Glass	81	H6760	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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ACM	Gasket	Gen. Eng. L.O. Purifying Tank Level Gauge Glass	82	H6761	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Gen. Eng. L.O. Renovating Tank Level Switch	-	H6762	0	-	-	-	-	-	Nil	
ACM	Gasket	Gen. Eng. L.O. Purifying Tank Level Gauge Glass Valve	83	H6763	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Packing	No.1 Aux. AC Deck Penetration	No Photo	H6764	0	-	-	-	-	-	Nil	
ACM	Packing	No.2 Provisions AC Compressor Penetration	No Photo	H6765	0	-	-	-	-	-	Nil	
ACM	Packing	No.1 Provisions AC Compressor Penetration	No Photo	H6766	0	-	-	-	-	-	Nil	
ACM	Packing (Mixed Debris)	Package Cooler Starboard Cooling Outlet Valve	-	H6767	0	-	-	-	-	-	Nil	
ACM	Gasket	Package Cooler Starboard Cooling Outlet Valve	-	H6768	0	-	-	-	-	-	Nil	
ACM	Gasket	Package Cooler Starboard Cooling Inlet Valve	84	H6769	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	No.2 Main AC Plant Freshwater Cooling Pipe	-	H6770	0	-	-	-	-	-	Nil	
ACM	Gasket	No.2 Main AC Plant Freshwater Cooling Pipe	-	H6771	0	-	-	-	-	-	Nil	
ACM	Fibre Board	No.2 Main Switchboard Room, Storage Bench, Loose Ceiling Panel	-	H6772	0	-	-	-	-	-	Nil	
ACM	Putty	No.2 Main Switchboard Room (O/B) Penetration to Deck head	85	H6773	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Mixed Debris	No.2 Main Switchboard Room (O/B) on Top of Electrical Cabinet	86	H6774	4	2	2	3	2	40	A2	Areas cleaned as far as safely practical without isolation of electrical systems by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd.  Areas to be fully remediated under controlled conditions by suitably qualified licenced asbestos removal contractors.
ACM	Gasket	No.2 Main Switchboard Room, Swagelok to top of Electrical Cabinet	-	H6775	0	-	-	-	-	-	Nil	
ACM	Packing	No.1 Main Switchboard Room, Penetration to Deckhead	87	H6776	1	1	1	1	2	6	A4	Recommended actions are to encapsulate, label and program for planned removal during refit; manage & re-inspect periodically.  Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.  Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	No.1 Main Switchboard Room, Swagelok to Top of Cabinet	-	H6777	0	-	-	-	-	-	Nil	
ACM	Mixed Debris	No.1 Main Switchboard Room, Top of Electrical Cabinet	88	H6778	4	2	2	3	2	40	A2	Areas cleaned as far as safely practical without isolation of electrical systems by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd.  Areas to be fully remediated under controlled conditions by suitably qualified licenced asbestos removal contractors.

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Small Spiral Wound Gasket (White Sealing Element) '1 Mpa Steam Trap Valves	Control Room, Starboard Cupboard to Wooden Cabinet	89	H6779	4	3	3	4	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Large Spiral Bound Gasket (White Sealing Element)	Control Room, Above DB3 Dist. Panel AC100v	90	H6780	4	3	3	4	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Gasket	2SA - DE3 - Temperature prob	194	ZA7879	1	-	-	-	-	6	A5	Remove as soon as reasonably practicable by a suitably licensed asbestos removal contractor.
ACM	Packing "Coffin"	2SA, AL5 450.11.01.002 Throttle Valve	-	K5210	0	-	-	-	-	-	Nil	
ACM	Packing "Coffin"	2SA, AL5 450.11.01.007 Pump Packing	151	K5211	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gaskets "Klinger C-4401 Thermoseal" Green Backing Black Font (Labelled Warning Harmful Fibres)	2SA, AL4 45011.01.G37	-	K5212	0	-	-	-	-	-	Nil	
ACM	Gasket "Melgrath Part No. "	2SA, AL4 450.11.01.G36	-	K5213	0	-	-	-	-	-	Nil	
ACM	Gasket (Metal Ring)	2SA, AL4 450.11.01.033	-	K5214	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket (White Sealing Element) Branded "Coffin"	2SA, AL4 45011.01G4	152	K5215	4	3	3	4	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Spiral Wound Gasket (Small) with Cream Coloured Sealing Element	2SA, AL3 450.11.01.G4	-	K5216	0	-	-	-	-	-	Nil	
ACM	Gasket (Blue with White Specks) No Branding	2SA, AL2 450.11.01.A17	-	K5217	0	-	-	-	-	-	Nil	
ACM	Lagging :TeamTec Gasket Rope 1/2")	2SA, AK4 580.10.01.G44	-	K5218	0	-	-	-	-	-	Nil	
<b>ACM</b>	<b>Packing (Graphite)</b>	<b>BH5 C8</b>	-	<b>ZA11569</b>	<b>0</b>	-	-	-	-	-	<b>Nil</b>	<b>Inspected &amp; Sampled 2023</b>
<b>ACM</b>	<b>Gasket</b>	<b>AD3 Small</b>	-	<b>ZA11570</b>	<b>0</b>	-	-	-	-	-	<b>Nil</b>	<b>Inspected &amp; Sampled 2023</b>
ACM	Lagging (1/2" No Branding)	2SA, 580.10.01.G44	-	K5219	0	-	-	-	-	-	Nil	
ACM	Packing (Graphite)	2SA, AH5 510.35.01.003 No.1 Gasket Vent Duct Exhaust Fan	-	K5220	0	-	-	-	-	-	Nil	

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ACM	Hard Facing (Shinko GVP200 MUS)	2SA, AE3 410.11.01.G06 Clutch to G.S. Pump Priming Pump Clutch	153	K5221	4	0	2	4	4	5	A3	Item removed from service by 'Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket "Valqua 1500" Black Backing with Green Font	2SA, AE3 444.11.01.009 Main Condenser Vacuum Pump Nash International	154	K5222	4	0	2	4	4	5	A3	Item removed from service by 'Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket "Valqua 6500" Blue Backing Black Font	2SA, AF2 444.11.01.008 Main Condenser Vacuum Pump	-	K5223	P4	0	2	4	4	5	A3	Item removed from service by 'Unrestricted Licensed Contractor PCB Holdings Pty Ltd  Unknown Mineral Fibres (UMF) Detected by PLM Including Note: The fibres detected may not be Asbestos fibres. confirm the identities, another independent analytical technique may be necessary)
ACM	Packing (White) ML61225 Sepco-NE-8PE8973	2SA, AF2 444.11.01.005 Main Condenser Vacuum Pump	-	K5224	0	-	-	-	-	-	Nil	
ACM	Gasket Foreside Cover Daihatsu 06612500 064	2SA, AE4 352.02.02.064 Emergency Diesel Generator	-	K5225	0	-	-	-	-	-	Nil	
ACM	Gasket (Valqua Blue Backing with Orange Font) for intake Manifold Daihatsu 0661 12500 067	2SA, AE4 352.02.02.067 Emergency Diesel Generator	155	K5226	P4	0	2	4	4	5	A3	Unknown Mineral Fibres (UMF) Detected by PLM Including Note: The fibres detected may not be Asbestos fibres. confirm the identities, another independent analytical technique may be necessary)  Item removed from service by 'Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Refractory Repair Material	2SA, Adj. AA1 580.10.01.002	-	K5227	0	-	-	-	-	-	Nil	
ACM	Gasket (Injection Pump Gasket)	2SA, BB3 901.10.01.008	-	K5228	0	-	-	-	-	-	Nil	
ACM	Gasket (Fuel Injection Pump) for Lifeboat Engine	2SA, BB3 901.10.01.G06	-	K5229	0	-	-	-	-	-	Nil	
ACM	Gland Packing (Nichas-NB560400-002-0332 4500	2SA, BD2 601.61.01.002 Desuperheater 1.0 MPa	-	K5230	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gland Packing	2SA, BD2 601.61.01.002 Desuperheater 1.0 MPa	-	K5231	0	-	-	-	-	-	Nil	
ACM	Seal Packing	2SA, BD2 601.61.01.G15 Desuperheater 1.0 MPa	-	K5232	0	-	-	-	-	-	Nil	
ACM	Seal Packing	2SA, BD2 601.61.01.G06 Desuperheater 1.0 MPa	-	K5233	0	-	-	-	-	-	Nil	
ACM	Burn Register (Port Boiler Carrier Tube Seal)	2SA, BE3 694.11.01.003	-	K5234	0	-	-	-	-	-	Nil	
ACM	Main Steam System Traps Gasket	2SA, BE3 709.71.01.071	156	K5235	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket	2SA, BE1 694.11.01.001 Burner Register Port Boiler	-	K5236	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket (White Sealing Element) "Vortex 1834-NA 20K-50Ax3.2"	2SA, BF4 68611.01.005 No.1 System Air Heater	-	K5237	0	-	-	-	-	-	Nil	
ACM	Gland Packing	2SA, BF3 68611.01.002	-	K5238	0	-	-	-	-	-	Nil	
ACM	Gasket Valqua (Black Backing Black Font)	2SA, BF2 690.11.01.062 Boiler Gauge Glass	-	K5239	0	-	-	-	-	-	Nil	
ACM	Gasket (Metal)	2SA, BF2 Boiler Gauge Glass	157	K5240	1	0	2	1	1	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket (Metal)	2SA, BF2 Boiler Gauge Glass Instrumentation	-	K5241	0	-	-	-	-	-	Nil	
ACM	Gasket (Metal)	2SA, BF2 690.11.01.007 Main Boiler Instrumentation	-	K5242	0	-	-	-	-	-	Nil	
ACM	Ring Packing	2SA, BF1 693.10.01.007 No.1 Sootblower	-	K5243	0	-	-	-	-	-	Nil	
ACM	Ring Packing	2SA, BF1 693.10.01.038 Boiler Sootblower	-	K5244	0	-	-	-	-	-	Nil	
ACM	Gland Packing	2SA, BF1 693.10.01.010 Boiler Sootblower	-	K5245	0	-	-	-	-	-	Nil	
ACM	Gland Packing	2SA, BF1 693.10.01.040 Boiler Sootblower	-	K5246	0	-	-	-	-	-	Nil	
ACM	Gland Packing	2SA, BF1 693.10.01.019 Sootblower	-	K5247	0	-	-	-	-	-	Nil	
ACM	Spiral Bound Gasket	2SA, BF1 693.10.01.004 Sootblower	-	K5248	0	-	-	-	-	-	Nil	
ACM	Spiral Bound Gasket	2SA, BF1 693.10.01.003 Sootblower	158	K5249	4	3	3	4	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket Metal	2SA, BF1 693.10.01.002 Sootblower	159	K5250	4	3	3	4	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Gasket "Tombo Brown Backing with Black Font"	2SA, BF1 693.10.01.015	-	K5251	0	-	-	-	-	-	Nil	
ACM	Gasket "Pillar Clean Sheet No. 5611"	2SA, BF1 693.10.01.015	-	K5252	0	-	-	-	-	-	Nil	
ACM	Spiral Bound Gasket "Vortex 1836R-NA-G55 NA 316 C3C3 JPI 900/1500-1	2SA, BG5	-	K5253	0	-	-	-	-	-	Nil	
ACM	Spiral Bound Gasket	2SA, BG4 739.11.01.G04	-	K5254	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket 97x87x81x71x4.5T	2SA, BG3	-	K5256	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket 97x87x81x71x4.5T	2SA, BG3	-	K5257	0	-	-	-	-	-	Nil	
ACM	Adhesive	2SA, BG3 605.11.01.G04 Main Condenser	-	K5258	0	-	-	-	-	-	Nil	
ACM	Powder	2SA, BG3 605.11.01.01 Main Condenser	-	K5259	0	-	-	-	-	-	Nil	
ACM	Gasket "Valqua 1500" Black Backing with Green Font	2SA, BJ3 708.10.01.024 Manoeuvring Valves	160	K5260	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket "Valqua"	2SA, BJ2	161	K5261	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gaskets Loose (Various Grey Sizes)	2SA, BJ2	162	K5262	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Debris	2SA, BJ2 Drawer	163	K5263	4	2	2	3	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd

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ACM	Debris	2SA, BJ2 Blue Plastic Container	164	K5264	4	2	2	3	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Debris	2SA, BJ2 Blue Plastic Container	165	K5265	4	2	2	3	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Gaskets Loose (Various Sizes of Graphite Material)	2SA, BJ2	166	K5266	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gaskets Loose (Green with White Speckles 5K-200 A)	2SA, BJ2	167	K5267	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Small Spiral Bound Gasket "No Brand" Cream Sealing Element	2SA, BJ2	-	K5268	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Loose Gaskets Vortex C20 K25, D 20K 25	2SA, BJ2	168	K5269	4	3	3	4	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Spiral Wound Medium Size Loose No Brand Various Makes)	2SA, BJ2	169	K5270	4	3	3	4	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Spiral Wound Medium Size Loose No Brand Various Makes)	2SA, BJ2	170	K5271	4	3	3	4	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Spiral Wound Gasket Cream Sealing Element "Vortex 184-MA 20K-80A x 3.2"	2SA, BJ2	-	K5272	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket Cream Sealing Element (Pillar JPI (ANSI) 600 lb's - 3")	2SA, BJ2	-	K5273	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket Cream Sealing Element "Vortex NA G 20K-65"	2SA, BJ2	-	K5274	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Spiral Wound Gasket White Sealing Element (No Brand) 9 lb's - 58	2SA, BJ2	171	K5275	4	3	3	4	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Loose Gaskets Small Size "Valqua 1755" Black Backing. Speckled White with Orange Font	2SA, BJ2	No Photo	K5276	4	0	2	4	4	5	A3	Item removed from service by 'Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Spiral Wound Gaskets Large Size (158x173x203 JPI900-6	2SA, BJ2	172	K5277	4	3	3	4	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Gaskets No.5 Sight Glass Gasket (Asbestos and Packing Label) IMPA 813275 No Brand Beige	2SA, BF4	-	K5278	0	-	-	-	-	-	Nil	
ACM	Gaskets No.5 Sight Glass Gasket (Asbestos and Packing Label) IMPA 813275 No Brand Black with White Specks	2SA, BF4	-	K5279	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket No.1 Steam Air Heater	2SA, BF4 686.11.01.004	-	K5280	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket No.1 Steam Air Heater	2SA, BF4 686.11.01.008	-	K5281	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket No.1 Steam Air Heater	2SA, BF4 686.11.01.006	-	K5282	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket No.1 Steam Air Heater	2SA, BF4 686.11.01.007	-	K5283	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket Cream Sealing Element Desuperheater Voltex Strainer	2SA, BD2 601.31.01.006	-	K5284	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Blue Sealing Element Desuperheater Seat Gasket 0.26 Mpa	2SA, BD2 601.51.01.004	-	K5285	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Blue Sealing Element Desuperheater Seat Gasket 0.26 Mpa	2SA, BK4 601.41.01.004	-	K5286	0	-	-	-	-	-	Nil	
ACM	Loose Gaskets Pillar Clean Sheet No. 5611 (10K 200A) (Beige Background Red Font)	2SA, BK4 370.50.urbine Emergency Connection	-	K5287	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gaskets Loose No Brand 900/1500-40 CT	2SA, BK4	-	K5288	0	-	-	-	-	-	Nil	
ACM	Gasket Loose "Kautisit Asbestos Freed" Black Font Dark Grey Backing"	2SA, BK2	-	K5289	0	-	-	-	-	-	Nil	
ACM	Spiral Wound Gasket Min Steam System Pipelines	2SA, BK2 739.11.01.G90	-	K5290	0	-	-	-	-	-	Nil	
ACM	Packing (White)	2SA, BM3 Condensate Valve 710.01.01.G07	-	K5291	0	-	-	-	-	-	Nil	

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ACM	Packing (Black)	2SA, BM2 Auxiliary Steam System Valves 709.21.01.029	-	K5292	0	-	-	-	-	-	Nil	
ACM	Gasket Loose "Permanite G" (Black Backing with White Speckles and Blue Font"	2SA, CB5 Cargo Tank Gauging 880.12.00.001	173	K5293	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket (Black with White Speckles)	2SA, CB5 Cargo Tank Gauging 880.12.00.018	174	K5294	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket "James Walker Sentinel" (Beige Background Black Font)	2SA, CB5 Cargo Tank Gauging 880.12.00.025	-	K5295	0	-	-	-	-	-	Nil	
ACM	Gasket "James Walker Sentinel" (Beige Background Black Font)	2SA, CB5 Cargo Tank Gauging 880.12.00.003	-	Refer to K5295	0	-	-	-	-	-	Nil	
ACM	Gasket Loose "Permanite G" (Black Backing with White Speckles and Blue Font"	2SA, CB5 Cargo Tank Gauging 880.12.00.026	-	Refer to K5293	0	-	-	-	-	-	Nil	
ACM	Brake Band	2SA, HC2 Hose Handling Cranes 215.10.01.005	-	K5296	0	-	-	-	-	-	Nil	
ACM	Gasket	2SA, HC2 I.G. Ref Comp. 568.21.01.001 F/Top Cover	175	K5297	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket	2SA, HC2 I.G. Ref Comp. 568.21.01.003 F/Top Cover Shaft Seal	-	Refer to K5297	0	-	-	-	-	-	Nil	
ACM	Gasket Adhered to Valve	2SA, HC2 Adj. HC2 Joint and Stringer	-	K5298	0	-	-	-	-	-	Nil	
ACM	Brake Band	2SA Above BD5 201.01.01.001 Windlass Machinery	-	K5299	0	-	-	-	-	-	Nil	
ACM	Lagging "Tombo"	2SA, BF7 Main Boilers Door Joint (Furnace Out) 680.01.01.G01	176	K5300	4	3	3	4	2	40	A2	Item removed from service by "Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Lagging	2SA, BF7 Main Boilers Door Joint (F. FWD. Lower) 680.01.01.G02	-	K5301	0	-	-	-	-	-	Nil	
ACM	Lagging	2SA, BG6	-	K5302	0	-	-	-	-	-	Nil	
ACM	Gasket	2SA, Welding Space Exhaust Fan Flange	-	K5303	0	-	-	-	-	-	Nil	
ACM	Packing	2SA, Below Gas Alarm Motor Penetration	177	K5304	1	1	1	1	2	6	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	2SA. No.2 Exhaust Fan Valve	-	K5305	0	-	-	-	-	-	Nil	

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ACM	Gasket	2SA, No.1 Exhaust Fane Valve	178	K5306	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Accommodation grey water drain	-	ZA7522	0	-	-	-	-	-	Nil	Inspected & Sampled 2023
<b>Upper Deck</b>												
ACM	Gasket	Air Handling Room, No.1 Main AC Unit Steam Heating Valve Bonnet	-	H6782	0	-	-	-	-	-	Nil	
ACM	Gasket	Air Handling Room, Swimming Pool Drain Valve	91	H6783	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Packing	Air Handling Room, Under Junction Box JMAC-4	-	H6784	0	-	-	-	-	-	Nil	
ACM	Putty	Air Handling Room, Under Power Outlet 11v/24v Transformer	-	H6785	0	-	-	-	-	-	Nil	
ACM	Gasket (White)	Air Handling Room, Under Power Outlet 11v/24v Transformer	-	H6786	0	-	-	-	-	-	Nil	
ACM	Gasket	Hydraulic Room, Ballast Power Pack Level Sight Glass	92	H6787	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Hydraulic Room, Cargo Power Pack Level Sight Glass	93	H6788	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Putty	Hydraulic Room, Cargo Power Pack Conduit	-	H6789	0	-	-	-	-	-	Nil	
ACM	Packing	Electrical Trunk Room, Lighting Power Board "L098" Penetration to Deck	-	H6790	0	-	-	-	-	-	Nil	
ACM	Fibre Board	No.2 Cargo Switchboard Room Wall Cladding	-	H6791	0	-	-	-	-	-	Nil	
ACM	Packing	No.2 Cargo Room Under Cabinet "Starter to Recue Boat" Penetration	-	H6792	0	-	-	-	-	-	Nil	

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ACM	Gasket Loose "Tombo 1000" Blue Background Black Font (x16)	No1 Cargo Room on Storage Rack	94	H6793	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket Loose "Valqua 1501" Grey Background Green Font (x14)	No1 Cargo Room on Storage Rack	95	H6794	4	0	2	4	4	5	A3	Item removed from service by "Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Packing	B.A. Compressor & Spare Bottles Room Deck Penetration	-	H6795	0	-	-	-	-	-	Nil	
ACM	Gasket	Fire Control Room. Water Spray Main Valve Bonnet	-	H6796	0	-	-	-	-	-	Nil	
ACM	Gasket	Fire Control Room Pressure Gauge Fire Main	-	H6797	0	-	-	-	-	-	Nil	
ACM	Putty	Emergency S/B Room No1 Engine Room Supply Fan Cabinet	96	H6798	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removallist Contractor (LARC)
ACM	Gasket	Emergency Generator Room L.O. End Cover	97	H6799	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removallist Contractor (LARC)
ACM	Gasket	Emergency Generator Room L.O. Outlet	-	H6800	0	-	-	-	-	-	Nil	
ACM	Gasket	Emergency Generator Room Sump Vent Above Flexi Pipe	-	H6801	0	-	-	-	-	-	Nil	
ACM	Gasket	Emergency Generator Room Exhaust Trunking Manhole	98	H6802	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removallist Contractor (LARC)
ACM	Gasket	Emergency Generator Room Air Start Outlet	-	H6803	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Main C.C.S F.W. Expansion Tank Low Level Switch	103	H6823	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removallist Contractor (LARC)
ACM	Gasket	Engine Room, Deaerator Outlet Valve Bonnet	-	H6824	0	-	-	-	-	-	Nil	

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ACM	Gasket	Engine Room, Suction Pipework Flange Aft of Port F.D Fan	-	H6825	0	-	-	-	-	-	Nil	
ACM	Gasket	Fo'c'sle/Bosons Store, Emergency Fire Pump Exhaust Manifold Gasket	-	H6826	0	-	-	-	-	-	Nil	
ACM	Gasket	Fo'c'sle/Bosons Store, Emergency Fire Pump Fuel Tank Level Sight Glass	-	H6827	0	-	-	-	-	-	Nil	
ACM	Gasket	Fo'c'sle/Bosons Store, Bilge Eductor Drive Valve Flange (FWD Void)	-	H6828	0	-	-	-	-	-	Nil	
ACM	Gasket	Fo'c'sle/Bosons Store, No.1 Winch/Windlass Hyd. Motor Return Gate Valve Bonnet 5k-125	-	H6829	0	-	-	-	-	-	Nil	
ACM	Gasket	Fo'c'sle/Bosons Store, Hydraulic Oil Header/Tank Overflow Level Sight Glass	104	H6830	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Putty	Fo'c'sle/Bosons Store, No.3 Winch & Windlass Starter Box	105	H6831	1	0	2	1	0	5	A4	Recommended actions are to encapsulate, label and program for planned removal during refit; manage & re-inspect for damage periodically.  Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action due to mechanical action during maintenance, refurbishment or breaking up of the vessel.  This item is recommended to be removed by an 'Unrestricted' Licensed Asbestos Removalist Contractor (LARC) owing to the friability of the product during removal.
ACM	Gasket	Fo'c'sle/Bosons Store, Transfer Oil Tank Sight Glass	106	H6832	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Fo'c'sle/Bosons Store, Storage Oil Tank Sight Glass	107	H6833	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Fo'c'sle/Bosons Store, Transfer Oil Tank Inlet/Inspection Plate	108	H6834	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Fo'c'sle/Bosons Store, Pipework to Transfer Oil Tank	109	H6835	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Fo'c'sle/Bosons Store, Hydraulic Oil Pump No.1 Suction Flange	-	H6836	0	-	-	-	-	-	Nil	
ACM	Gasket	Fo'c'sle/Bosons Store, Hydraulic Oil Pump No.1 Discharge Flange	-	H6837	0	-	-	-	-	-	Nil	
ACM	Gasket	Fo'c'sle/Bosons Store, Hydraulic Pump No.2 Suction Flange	110	H6838	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Fo'c'sle/Bosons Store, Hydraulic Pump No.3 Suction Flange	111	H6839	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Fo'c'sle/Bosons Store, Hydraulic Pump No.4 Suction Flange	112	H6840	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Fo'c'sle/Bosons Store, Hydraulic Storage Tank Manhole Cover	113	H6841	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Fo'c'sle/Bosons Store, Hydraulic Storage Tank Drain Line Valve Flange (Water)	-	H6842	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Pipe Passage Starboard, Frame 99 Fire Line Pipework Flange	-	H6843	0	-	-	-	-	-	Nil	
ACM	Gasket	Pipe Passage Starboard, Air Line Flange	-	H6844	0	-	-	-	-	-	Nil	
ACM	Gasket	Pipe Passage Starboard, Frame 91, Hydraulic Return Line	-	H6845	0	-	-	-	-	-	Nil	
ACM	Gasket	Pipe Passage Starboard, Frame 87/88 Air Line Water Flange	-	H6846	0	-	-	-	-	-	Nil	
ACM	Gasket	Pipe Passage Starboard, Frame 87/88 Line Air	-	H6847	0	-	-	-	-	-	Nil	
ACM	Gasket	Pipe Passage Starboard, Frame 85/86 Fire Hydrant Pipe Work Flange	-	H6848	0	-	-	-	-	-	Nil	
ACM	Gasket	Pipe Passage Starboard, Frame 85/86 Flow Gauge	-	H6849	0	-	-	-	-	-	Nil	
ACM	Gasket	Pipe Passage Starboard, Frame 85/86 Ballast Flange	-	H6850	0	-	-	-	-	-	Nil	
ACM	Gasket	Pipe Passage Starboard, Frame 66/67 Fire Line	-	H6851	0	-	-	-	-	-	Nil	
ACM	Gasket	Pipe Passage Starboard, Frame 66/67 S.W Lime	-	H6852	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	Aft End Diesel Oil Line	-	C4561	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Aft End Inert Gas Line	-	C4562	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Aft End Line	-	C4563	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Pipe Insulation	Aft End Of Steam Pipe	-	C4564	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Valve Gasket	Aft End Of Line	-	C4565	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Aft End Of Fresh Water Line	-	C4566	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013. Not Sighted in 2017
ACM	Flange Gasket	Aft End Of Sea Water Coolant Line	-	C4567	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Aft End Of Compressed Air Line	-	C4568	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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ACM	Flange Gasket	Compressed Air Control System At Bulkhead 69	-	C4569	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013. Not Sighted in 2017
ACM	Flange Gasket	Diesel Oil Line At Bulkhead 79	-	C4570	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Inert Gas Line At Bulkhead 79	-	C4571	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Sea Water Coolant Line At Bulkhead 79	-	C4572	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fresh Water Line At Bulkhead 79	-	C4573	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Line At Bulkhead 98	-	C4574	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Compressed Air Lines At Bulkhead 97	-	C4575	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fresh Water Line At Bulkhead 98	-	C4576	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Gasket	Cargo Motor Room, No.1 Freshwater Pump Discharge Valve Casing	114	H6864	1	0	2	1	0	5	A4	Could not locate at the time of assessment. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Cargo Motor Room, No.2 Freshwater Pump Discharge Valve Casing	115	H6865	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Cargo Motor Room, No.1 L.D. Compressor, Drive Shaft to Bellows Locking Ring	-	H6866	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, No.2 L.D. Compressor, Drive Shaft to Bellows Locking Ring	-	H6867	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, Control Air Manifold Inlet	-	H6868	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Cargo Motor Room, No.1 HD Compressor Drive Shaft to Bellows Lock Ring	-	H6870	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, No.1 HD Compressor Motor Shaft Aft Oil Bath Casing	-	H6871	0	-	-	-	-	-	Nil	
	Gasket	Cargo Motor Room, Control Air Line	-	H6869	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, Control Air Line Aft Bulkhead Between No.1 & No.2 L.D. Compressors	116	H6872	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Cargo Motor Room, AUX.CCS.F>WEXPTK Float Switch	117	H6873	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Cargo Motor Room, No.1 Fan Motor Seal to Bulkhead	-	H6874	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, No.2 Fan Motor Seal to Bulkhead	-	H6875	0	-	-	-	-	-	Nil	
ACM	Gasket Loose "Valqua 1500" (Black Backing with White Speckles and Green Font)	Cargo Motor Room, Work Bench	-	Refer to Valqua 1500	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, Gas Compressor L.O Storage Tank Manhole Cover	118	H6876	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Cargo Motor Room, L.O. Storage Tank Level Gauge Sight Glass	119	H6877	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Cargo Motor Room, L.O. Storage Tank Drain Valve Flange	-	H6878	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, Heating Steam Inlet Boiler Off/Warm Up Heater E-3B	-	H6879	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, Condensate Drain Tank Gauge Glass (With Gas Sampler Points)	120	H6880	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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ACM	Packing	Cargo Motor Room, FWD Starboard 2nd Level Conduit Penetrations	-	H6881	0	-	-	-	-	-	Nil	
ACM	Gasket Loose "No Brand" Black	Cargo Motor Room, FWD Under Starboard Heater	-	H6882	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, Gas Vent Bilge Tank Cover	121	H6883	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Cargo Motor Room, Gas Vent Drain Tank Low Level Switch	-	H6884	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, Gas Vent Drain Tank Manhole	122	H6885	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Cargo Motor Room, Drain Cooler for Gas Heater Inspection Door End Cover	-	H6886	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, Drain Cooler for Gas Heater Inspection Door	-	H6887	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, Cooling Water Outlet From Drain Cooler	123	H6888	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Cargo Motor Room, Water Line Valve Flange Starboard Side	-	H6889	0	-	-	-	-	-	Nil	
ACM	Gasket	Cargo Motor Room, No.1 H.D L.O Gearbox Sump	124	H6890	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Cargo Motor Room, No.1 L.D. Compressor Top of Gearbox Inspection Panel	-	H6891	0	-	-	-	-	-	Nil	
ACM	Gasket	Port Passage, Pipe Flange Frame 100	-	H6892	0	-	-	-	-	-	Nil	
ACM	Gasket	Port Passage, Bilge Line Frame 99	-	H6893	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Putty	Port Passage, Electrical Cabinet JCM-20 Frame 87	125	H6894	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Port Passage, Pipe Work Frame 81	-	H6895	0	-	-	-	-	-	Nil	
ACM	Gasket	Port Passage, Pipe Work Frame 81	-	H6896	0	-	-	-	-	-	Nil	
ACM	Gasket	Port Passage, Pipework Air Line Frame 66	126	H6897	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Port Passage, Pipework Freshwater Frame 66	-	H6898	0	-	-	-	-	-	Nil	
ACM	Gasket	Port Passage, Inserting/Aerating Valve VI 498 Frame 65	-	H6899	0	-	-	-	-	-	Nil	
ACM	Gasket	Port Passage, Spectacle Piece Port Frame 65	127	H6900	P1	0	2	1	0	5	A4	Unknown Mineral Fibres (UMF) Detected by PLM Including Note: The fibres detected may not be Asbestos fibres. confirm the identities, another independent analytical technique may be necessary). Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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ACM	Gasket	Port Passage, Spectacle Piece Starboard Frame 66	128	H6901	P1	0	2	1	0	5	A4	Unknown Mineral Fibres (UMF) Detected by PLM Including Note: The fibres detected may not be Asbestos fibres. confirm the identities, another independent analytical technique may be necessary). Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Flange Gasket	Aft End Inert Gas Line	-	C4550	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Aft End Inert Gas Line	-	C4551	0	-	-	-	-	-	Nil	Surveyed December 2013.
ACM	Flange Gasket	Aft End Diesel Oil Line	-	C4552	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Aft End Diesel Oil Line	-	C4553	0	-	-	-	-	-	Nil	Surveyed December 2013.
ACM	Flange Gasket	Aft End Compressed Air Line	-	C4554	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013. Not Sighted in 2017.
ACM	Flange Gasket	Aft End Compressed Air Line	-	C4555	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Hydrant At Bulkhead 73	-	C4556	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Diesel Oil Line At Bulkhead 83	-	C4557	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Compressed Air Line At Bulkhead 85	-	C4558	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fresh Water Line At Bulkhead 99	-	C4559	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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ACM	Flange Gasket	Compressed Air Line At Bulkhead 99	-	C4560	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Gasket	CMR CO2 Storage Room, Air Receiver Inlet Valve	-	H6902	0	-	-	-	-	-	Nil	
ACM	Gasket	CMR CO2 Storage Room, Air Receiver Blank	-	H6903	0	-	-	-	-	-	Nil	
ACM	Gasket	CMR CO2 Storage Room, CO2 Discharge Line	-	H6904	0	-	-	-	-	-	Nil	
ACM	Gasket	CO2 Room, Exterior to Eductor Drive (Hold Bilge) Valve Bonnet	-	H6905	0	-	-	-	-	-	Nil	
ACM	Gasket	Fire Hydrant No.66, Midship Starboard	-	H6906	0	-	-	-	-	-	Nil	
ACM	Gasket	Aft, Starboard, Vent Pipe - Refig. (Outboard)	-	H6907	0	-	-	-	-	-	Nil	
ACM	Gasket Loose "Chesterton 455" Pink Backing Black Font)	Deck Workshop (Starboard Aft)	-	H6908	0	-	-	-	-	-	Nil	
ACM	Gasket Loose "No Brand" Green Backing Black Font"	Deck Workshop (Starboard Aft)	-	H6909	0	-	-	-	-	-	Nil	
ACM	Gasket Loose "No Brand" (Blue Backing Black Font)	Deck Workshop (Starboard Aft)	-	H6910	0	-	-	-	-	-	Nil	
ACM	Fibre Board	Deck Workshop Bulk Head (Starboard Aft)	-	H6911	0	-	-	-	-	-	Nil	

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ACM	Packing	Deck Rope Store (Starboard Aft)	129	H6912	1	1	1	1	2	6	A4	<p>Recommended actions are to encapsulate, label and program for planned removal during refit; manage &amp; re-inspect periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)</p>
ACM	Gasket	Deck Rope Store (Starboard Aft) Drain Pot	-	H6913	0	-	-	-	-	-	Nil	
ACM	Putty	B.A. Locker (Starboard Aft) Cable Conduit Pipe to Deck	130	H6914	1	0	1	1	1	4	A4	<p>Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)</p>
ACM	Gasket	O2 Bottle Room, Upper Deck Aft Pipework Flange	-	H6915	0	-	-	-	-	-	Nil	
ACM	Putty	Helicopter Rescue Equipment Room, Aft Bulkhead	No Photo	H6916	1	0	1	1	1	4	A4	<p>Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)</p>

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Packing	Shipwright Store, Port Side Aft Through FWD Bulkhead	131	H6917	1	1	1	1	2	6	A4	Recommended actions are to encapsulate, label and program for planned removal during refit; manage & re-inspect periodically.  Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.  Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Putty	Boat Gear Locker, Cable Penetration to Deck via Steel Conduit	132	H6918	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	No.3 Dry Chemical Powder Room Vessel Pipework Flange to Manifold	-	H6919	0	-	-	-	-	-	Nil	
ACM	Gasket	No.3 Dry Chemical Powder Room Vessel Pipework Outlet Flange to Manifold	133	H6920	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
	Gasket	No.3 Dry Chemical Powder Room Port Discharge (Hose Box 16)	-	H6921	0	-	-	-	-	-	Nil	
ACM	Gasket	No.4 Hold Port Sampling Point (N2 Return)	-	H6922	0	-	-	-	-	-	Nil	
ACM	Gasket	No.4 Hold Port Sampling Point (Adjacent to HP6922) Blank	-	H6923	0	-	-	-	-	-	Nil	
ACM	Gasket	No.3 Hold Port Sampling Point (N2 Return)	-	H6924	0	-	-	-	-	-	Nil	
ACM	Gasket	No.3 Hold Sampling Line Adj. 24 Blank	-	H6925	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	No.1 Dry Chemical Powder Room, Vessel Outlet Valve	-	H6926	0	-	-	-	-	-	Nil	
ACM	Gasket	No.1 Dry Chemical Powder Room, Vessel Inboard Blank	134	H6927	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	No.2 Cargo Hold N2 Sampling Point	-	H6928	0	-	-	-	-	-	Nil	
ACM	Gasket	No.2 Cargo Hold N2 Blanked Sampling Point	135	H6929	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	No.1 Cargo Hold N2 Sampling Point	-	Refer to H6928	0	-	-	-	-	-	Nil	
ACM	Gasket	No.1 Cargo Hold N2 Blank Sampling Point	-	H6930	0	-	-	-	-	-	Nil	
ACM	Brake Band	Winch Brake FWD Port (Aft)	-	H6931	0	-	-	-	-	-	Nil	
ACM	Brake Band	Port Windlass/Winch	-	H6932	0	-	-	-	-	-	Nil	
ACM	Brake Band	Winch FWD Starboard	-	H6933	0	-	-	-	-	-	Nil	
ACM	Brake Band	Winch FWD Starboard Windlass	-	H6934	0	-	-	-	-	-	Nil	
ACM	Brake Band	FWD Winch (Aft Position) Starboard	-	H6935	0	-	-	-	-	-	Nil	
ACM	Gasket	Adj. No.2 Dry Chemical Powder Room F.W. Pipe Line Valve Bonnet	-	H6936	0	-	-	-	-	-	Nil	
ACM	Gasket	No.2 Dry Chemical Powder Room Vessel Outlet	-	H6937	0	-	-	-	-	-	Nil	

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ACM	Gasket	No.2 Dry Chemical Powder Room (Lank to Rear of Vessel)	-	H6938	0	-	-	-	-	-	Nil	
ACM	Gasket	Manifold (Starboard) Air Line (FWD)	-	H6939	0	-	-	-	-	-	Nil	
ACM	Gasket	Manifold (Starboard) H.F.O Bunker Line Drain Valve	-	H6940	0	-	-	-	-	-	Nil	
ACM	Gasket	Manifold (Starboard) Diesel Bunker Line Blank	-	H6941	0	-	-	-	-	-	Nil	
ACM	Gasket	Manifold (Port) Diesel Bunker Line Blank	-	H6942	0	-	-	-	-	-	Nil	
ACM	Gasket	Manifold (Port) H.F.O. Bunker Line Blank	-	H6943	0	-	-	-	-	-	Nil	
ACM	Brake Band	Poop Deck, Port FWD	-	H6944	0	-	-	-	-	-	Nil	
ACM	Brake Band	Poop Deck, Port Aft	-	H6945	0	-	-	-	-	-	Nil	
ACM	Brake Band	Poop Deck, Starboard Aft	-	H6946	0	-	-	-	-	-	Nil	
ACM	Brake Band	Poop Deck, Starboard FWD	-	H6947	0	-	-	-	-	-	Nil	
ACM	Brake Band	Poop Deck, Emergency Towage Wheel	-	H6948	0	-	-	-	-	-	Nil	
ACM	Woven Material	Port Life Boat, Exhaust Insulation	-	H6981	0	-	-	-	-	-	Nil	
ACM	Gasket	Port Life Boat, Engine Exhaust Manifold	-	H6982	0	-	-	-	-	-	Nil	
ACM	Cloth Insulation	Port Side Lifeboat, Engine Exhaust System	-	C4594	0	-	-	-	-	-	Nil	Surveyed in December 2013
ACM	Woven Material	Starboard Life Boat, Exhaust Insulation	-	H6983	0	-	-	-	-	-	Nil	
ACM	Gasket	Starboard Life Boat, Engine Exhaust Manifold	-	H6984	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Cloth Insulation	Starboard Side Lifeboat, Engine Exhaust System	-	C4593	0	-	-	-	-	-	Nil	Surveyed in December 2013
ACM	Gasket	Funnel Exhaust Trunking	-	H6985	0	-	-	-	-	-	Nil	
ACM	Gasket	Funnel Deck Port DG1 Crank Case & L.O. Sump Vent	-	H6986	0	-	-	-	-	-	Nil	
ACM	Inspection Plate Gasket	Funnel, Main Exhaust Stack	-	C4611	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Funnel, Main Exhaust Stack	-	C4612	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Insulation	Funnel, Main Exhaust Stack	-	C4613	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Funnel, Condensate Pipework Port Side	-	C4614	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Funnel, Condensate Pipework Forward Side	-	C4615	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Funnel, Condensate Pipework Starboard Side	-	C4616	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Funnel, Condensate Pipework Aft Side	-	C4617	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Next To Dirty Gear Laundry	-	C4618	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Low Density Board	Dirty Gear Laundry - Hot Plate For Steam Iron	-	C4619	2	2	3	4	3	44	A2	Removed. Source Clearance Certificate
ACM	Low Density Board	Clean Gear Laundry - Hot Plate For Steam Iron	-	C4620	2	2	3	2	3	42	A2	2 Items Present - Removed. Source Clearance Certificate
ACM	Valve Gasket	Fire Control Room - Upper Gate Valve To FI FI Pipework	-	C4621	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Valve Gasket	Fire Control Room - Upper Gate Valve To FI FI Pipework	-	C4622	0	-	-	-	-	-	Nil	Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Valve Gasket	Fire Control Room - Upper Gate Valve To FI FI Pipework	-	C4623	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Valve Gasket	Fire Control Room - Lower Gate Valve To FI FI Pipework	-	C4624	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Valve Gasket	Fire Control Room - Lower Gate Valve To Pipework	-	C4625	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Valve Gasket	Fire Control Room - Gate Valve To FI FI Pipework	-	C4626	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Valve Gasket	Fire Control Room - Gate Valve To FI FI Pipework	-	C4627	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Fire Control Room Narrow Bore FI FI Pipework	-	C4628	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Control Room FI FI Pipework Manifold	-	C4629	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Control Room Overhead Pipework	-	C4630	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Emergency Generator Room - Air Receiver System	-	C4631	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Emergency Generator Room - Warm Up Heater	-	C4632	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Emergency Generator Room - Oil Cooler System	-	C4633	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Emergency Generator Room - Fresh Water Radiator System	-	C4634	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Sight Glass Gasket	Emergency Generator Room - Diesel Oil Tank Fill Level Indicator	-	C4635	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Tank Plate Gasket	Emergency Generator Room - Diesel Oil Tank Inspection Plate	-	C4636	4	4	2	0	4	5	A4	Removed. Source Clearance Certificate.
ACM	Flange Gasket	Emergency Generator Room - Diesel Oil Lines	-	C4637	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Emergency Generator Room - Generator Exhaust Stack	-	C4638	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Hydraulic Pump Room - Waste Water Pipes	-	C4639	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Sight Glass Gasket	Hydraulic Pump Room - Ballast Power Pack Tank Fill Level Indicator	-	C4640	1	1	2	0	1	5	A4	Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Tank Plate Gasket	Hydraulic Pump Room - Ballast Power Pack Tank Inspection Plate	-	C4641	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Sight Glass Gasket	Hydraulic Pump Room - Power Pack Tank For Cargo VRC, Fill Level Indicator	-	C4642	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Tank Plate Gasket	Hydraulic Pump Room - Power Pack Tank For Cargo VRC, Inspection Plate	-	C4643	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Hydraulic Pump Room - Overhead High Pressure Lines	-	C4644	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Opposite No. 2 Cargo Switchboard Room	-	C4645	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	A/C Room Gate Valve (No. 2 Cabinet)	-	C4646	4	4	2	0	4	5	A4	Removed. Source Clearance Certificate.
ACM	Flange Gasket	A/C Room Opposite Paint Store CO2 Release	-	C4647	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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ACM	Flange Gasket	A/C Room Opposite Paint Store CO2 Release	-	C4648	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	A/C Room Next To Paint Store Relay Box	-	C4649	1	1	2	0	1	5	A4	Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Valve Gasket	CMR - Gas Heater System Gate Valve	-	C4651	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	CMR - Gas Heater System Drain Cooler	-	C4652	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	CMR - Gas Heater System Drain Cooler	-	C4653	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	CMR - Gas Heater System Drain Cooler	-	C4654	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	CMR - Gas Heater System Drain Cooler	-	C4655	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Pipe Insulation	CMR - Cryo Pipes	-	C4656	0	-	-	-	-	-	Nil	Throughout. Surveyed December 2013
ACM	Valve Gasket	CMR - Boil Off Warm Up Heater Gate Valve	-	C4657	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	CMR - LNG Vaporiser	-	C4658	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	CMR - 'GAS.COMP.L.O.TK' Inlet	-	C4659	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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ACM	Flange Gasket	CMR - 'GAS.COMP.L.O.TK' Breather	-	C4660	1	1	2	0	1	5	A4	Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Sight Glass Gasket	CMR - 'GAS.COMP.L.O.TK' Fill Level Indicator	-	C4661	1	1	2	0	1	5	A4	Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Tank Plate Gasket	CMR - 'GAS.COMP.L.O.TK' Inspection Plate	-	C4662	1	1	2	0	1	5	A4	Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Flange Gasket	CMR - Fresh Water / Sea Water Heat Exchange System	-	C4663	1	1	2	0	1	5	A4	Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Flange Gasket	CMR - Aux Fresh Water Expansion Tank Floating Switch Unit	-	C4664	1	1	2	0	1	5	A4	Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

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ACM	Flange Gasket	CMR -Aux Fresh Water Expansion Tank Pipework	-	C4665	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External High Level Cat Walk Chryo Pipes Above Tank 4	-	C4692	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External High Level Cat Walk Compressed Air Lines Above Tank 1	-	C4693	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External High Level Cat Walk Lines Above Tank 4	-	C4694	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External High Level Catwalk Compressed Air Manifold Tank 1	-	C4695	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Cable Penetration Sealant	Fore Mast	-	C4696	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	PS Aft Bilge Hold Deck Vent	-	C4813	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	PS Deck Vent Head	-	C4814	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	PS 'F.O.ADD.TK' Deck Vent	-	C4815	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	PS F.O. Bunkering Station	-	C4816	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Valve Gasket	PS FI FI Hydrant	-	C4817	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	PS Winch Hydraulic System	-	C4818	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	PS Fire Main	-	C4819	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Cargo Connection Point	-	C4820	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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ACM	Flange Gasket	PS Deck Vent Head	-	C4821	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Spare Gaskets	PS Nitrogen Store	-	C4822	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Nitrogen Store, Nitrogen Generator Outlet Pipe	-	C4823	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Nitrogen Store, Nitrogen FI FI Manifold	-	C4824	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	PS Deluge System	-	C4825	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Brake Lining	PS Hawser Winch	-	C4826	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Brake Lining	PS Anchor Winch	-	C4827	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Brake Lining	SS Hawser Winch	-	C4828	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	F/PEAK.WBT.VENT' Deck Vent Head	-	C4829	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar
ACM	Flange Gasket	SS Hawser Winch Hydraulic System	-	C4830	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar
ACM	Flange Gasket	SS Anchor Winch Hydraulic System	-	C4831	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar
ACM	Flange Gasket	Forward PS Compressed Air Outlet	-	C4832	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	SS FI FI System	-	C4833	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	SS Cargo Connector	-	C4834	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS Nitrogen Store, FI FI Manifold	-	C4835	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

<b>Surveyor:</b> Sam Martin	<b>Survey Type:</b> Asbestos Survey Type 2 (Partial re-inspection and refit survey)	<b>Date of Survey:</b> 31st October -1st November 2023
<b>Site Contact:</b> Chief Engineer	<b>Vessel:</b> Northwest Sanderling IMO:8608872	<b>Review Date:</b> 31st October 2024 ( Full re-inspection still due and has not been completed)

Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	SS Nitrogen Store, Nitrogen Generator Outlet Pipe	-	C4836	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS Deluge System	-	C4837	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS Aft F.O. Tank Deck Vent Head	-	C4838	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS 'F.O.SETT.TK' Deck Vent Head	-	C4839	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Spare Gaskets (Blue)	Deck Store Work Bench	-	C4840	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Spare Gaskets (Green)	Deck Store Work Bench	-	C4841	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Spare Gaskets (Brown)	Deck Store Work Bench	-	C4842	4	4	2	0	4	5	A2	Removed. Source Clearance Certificate.
<b>A Deck</b>												
ACM	Gasket	Incinerator Room, Incinerator Exhaust Trunking Flange	-	H6804	0	-	-	-	-	-	Nil	
<b>ACM</b>	<b>Gasket</b>	<b>Incinerator Room fuel oil supply</b>	-	<b>ZA7524</b>	<b>0</b>	-	-	-	-	-	<b>Nil</b>	<b>Inspected &amp; Sampled 2023</b>
ACM	Gasket	Incinerator Room, Incinerator Exhaust Trunking Flange Adj. Sludge Oil Settling Tank Manhole Cover	-	H6805	0	-	-	-	-	-	Nil	
ACM	Gasket	Incinerator Room, Pipeline Sludge to Burner Flange	-	H6806	0	-	-	-	-	-	Nil	
ACM	Gasket	Incinerator Room, Steam Heating Line - Condensate Out Flange	-	H6807	0	-	-	-	-	-	Nil	
ACM	Gasket	Incinerator Room, Steam Heating Line - Steam In Flange	-	H6808	0	-	-	-	-	-	Nil	
ACM	Gasket	Incinerator Room, Sludge Pump Inlet Flange	-	H6809	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Incinerator Room, Adj. Low Level Switch on Sludge Oil Settling Tank	-	H6810	0	-	-	-	-	-	Nil	
ACM	Gasket	Incinerator Room, High Level Switch - Sludge Tank	-	H6811	0	-	-	-	-	-	Nil	
ACM	Gasket	Incinerator Room, Diesel Tank - Low Level Switch	99	H6812	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removallist Contractor (LARC)
ACM	Putty	Incinerator Room, Junction Box, FWD Bulkhead Adj. 11F 154C Box	100	H6813	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removallist Contractor (LARC)
ACM	Gasket	Incinerator Room, Sludge Pump Seal	-	H6815	0	-	-	-	-	-	Nil	
ACM	Gasket	Incinerator Room, Exhaust Trunking Before Blower	101	H6816	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removallist Contractor (LARC)
ACM	Gasket	Engine Room, Exhaust Pipe/Trunking After Blower	-	H6817	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Blower Casing	-	H6818	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Deaerator Feed Water Inlet Valve	-	H6820	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Deaerator Manhole Cover	-	H6821	0	-	-	-	-	-	Nil	
ACM	Gasket	Engine Room, Forced Draft Fan Trunking Flange	-	H6822	0	-	-	-	-	-	Nil	
ACM	Gasket	Port Air Connection Flange	-	H6863	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	Vent Trunk Wide Bore Pipe	-	C4533	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Vent Trunk Narrow Bore Pipe	-	C4534	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Next To No. 7 Cleaning Gear Locker	-	C4535	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fresh Water Pipe In Provision Handling Space Pipe Riser	-	C4536	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Next To Beer Room	-	C4537	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Low Density Board	Bonded Locker - Loose Lying Wall Lining Panels And Debris	-	C4538	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Garbage Disposal Room - Pulper System	-	C4539	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Garbage Disposal Room - Fresh Water Pipes	-	C4540	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Garbage Disposal Room - Deluge System Supply	-	C4541	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Opposite Provisions Store	-	C4542	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS External Compressed Air Outlet	-	C4543	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS External FI FI Hydrant	-	C4544	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS External Deluge System	-	C4545	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	SS External Deluge System	-	C4546	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	PS External Compressed Air Outlet	-	C4547	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	PS External FI FI Hydrant	-	C4548	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	PS External Deluge System	-	C4549	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Incinerator Room Narrow Bore Lagged Pipe	-	C4577	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Incinerator Room Wide Bore Lagged Pipe	-	C4578	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Incinerator Room - Wascon Waste Disposal System	-	C4579	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Incinerator Room Exhaust System	-	C4580	4	4	2	0	4	5	A4	Observed Gaskets In This Line Are Visually Similar - Removed. Source Clearance Certificate.
ACM	Flange Gasket	Incinerator Room - Incinerator Fan Burner Unit	-	C4581	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Incinerator Room - Incinerator Fuel Oil Supply Pipework	-	C4582	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Incinerator Room - Sludge Oil Control Valve	-	C4583	4	4	2	0	4	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Incinerator Room Sludge oil Pump System	-	C4584	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Incinerator Room Sludge Oil Manifold	-	C4585	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Incinerator Room Sludge Oil Supply Pipework	-	C4586	4	4	2	0	4	5	A4	Removed. Source Clearance Certificate.
ACM	Woven Wrap Insulation to pipework	Incinerator Room Sludge Oil Manifold	-	C4587	4	3	2	2	2	40	A2	Removed. Source Clearance Certificate.
ACM	Sight Glass Gasket	Incinerator Room Sludge Oil Settling Tank Fill Level Indicator	-	C4588	4	4	2	0	4	5	A4	Removed. Source Clearance Certificate.
ACM	Tank Cover Gasket	Incinerator Room 'D.O.SERV.TK'	-	C4589	4	4	2	0	4	5	A4	Removed. Source Clearance Certificate.

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Sight Glass Gasket	Incinerator Room 'D.O.SERV.TK' Fill Level Indicator	-	C4590	4	4	2	0	4	5	A4	Removed. Source Clearance Certificate.
ACM	Flange Gasket	Incinerator Room 'D.O.SERV.TK' Pipework	-	C4591	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Incinerator Room 'D.O.SERV.TK' Gate Valve	-	C4592	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Cloth Gasket	Casing - Incinerator Fan Access Panel	-	C4599	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Casing - Incinerator Exhaust System	-	C4600	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Casing - Compressed Air Lines Next To Incinerator Room	-	C4601	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Casing - Fresh Water Lines Next To Incinerator Room	-	C4602	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Casing - Boiler System Duct Work	-	C4603	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Casing - Deaerator Sight Glass Pipework	-	C4604	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Tank Plate Gasket	Casing - Deaerator Tank Inspection Plate	-	C4605	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Casing - Deaerator Exhaust System Above Tank	-	C4606	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Casing - Deaerator Exhaust System Above Tank	-	C4607	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Casing - Deaerator Condenser System	-	C4608	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Casing - Deaerator Condenser System Gate Valve	-	C4609	0	-	-	-	-	-	Nil	Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Casing - Exhaust Stack Above Deaerator System	-	C4610	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Rope Door Seals	Incinerator Room - Incinerator	-	C4650	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Gasket	Engine Room, Incinerator Exhaust Trunking (Adj. No.1 Fan Room Exhaust)	102	H6819	1	0	2	1	0	5	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Port Air Connection Flange	-	H6861	0	-	-	-	-	-	Nil	
<b>B Deck</b>												
ACM	Gasket	Deluge System Flange	-	H6862	0	-	-	-	-	-	Nil	
ACM	Gasket	Ventilation Trunk Room Domestic Hot Water Valve Flange	-	H6980	0	-	-	-	-	-	Nil	
ACM	Low Density Board	Sauna, Heater Insulating Panels	-	H6987	0	-	-	-	-	-	Nil	
ACM	Low Density Board	Sauna, Wall Insulation Behind Wooden Panels	-	H6988	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	PS External FI FI Hydrant	-	C4522	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	PS External Deluge System	-	C4523	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS External Compressed Air Line	-	C4524	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS External FI FI Hydrant	-	C4525	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Low Density Board	Sauna - Panels Surrounding Heater Element	-	C4526	0	-	-	-	-	-	Nil	Surveyed December 2013

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ACM	Flange Gasket	Swimming Pool FI FI Control Valve	-	C4527	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Opposite The Library	-	C4528	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Opposite Trainee A Cabin	-	C4529	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Vent Trunk Wide Bore Pipe Low Level	-	C4530	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Vent Trunk Narrow Bore Water Pipes High Level	-	C4531	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Vent Trunk Gate Valve Rear Left Corner	-	C4532	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Casing - Incinerator Exhaust System	-	C4595	1	1	2	0	1	5	A4	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013. <i>Re-sampled in 2017 - Returned Positive</i>
ACM	Flange Gasket	Casing - Large Bore Water Pipe On Gantry	-	C4596	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Casing - Narrow Bore Water Pipe On Gantry	-	C4597	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Casing - PS Boiler Exhaust Stack	-	C4598	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	PS External FI FI Hydrant	-	C4513	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	PS External Deluge System	-	C4514	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS External FI FI Hydrant	-	C4515	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS External Deluge System	-	C4516	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Fire Hose Cupboard Opposite Rating H Cabin	-	C4517	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Vent Trunk Fresh Water Supply Gate Valve	-	C4518	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Vent Trunk Wide Bore Pipe Low Level	-	C4519	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Vent Trunk Wide Bore Pipe High Level	-	C4520	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Opposite Rating C Cabin	-	C4521	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
<b>D Deck</b>												
ACM	Gasket	Ventilation Trunk Room Domestic Hot Water Valve Flange	-	H6979	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	PS External FI FI Hydrant	-	C4503	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	PS External Deluge System	-	C4504	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS External FI FI Hydrant	-	C4505	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	SS External Deluge System	-	C4506	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Opposite 'Spare' Cabin	-	C4507	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Vent Trunk Wide Bore Water Pipes Low Level	-	C4508	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Vent Trunk Wide Bore Water Pipes High Level	-	C4509	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Vent Trunk Narrow Bore Water Pipes	-	C4510	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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ACM	Valve Gasket	Vent Trunk Gate Valve Rear Left Corner	-	C4511	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Opposite Chief Engineers Bedroom	-	C4512	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
<b>E Deck</b>												
ACM	Packing (Grey)	Electrical Cable Trunk Room, Inboard Deck Penetration	150	H6978	1	1	1	1	2	6	A4	<p>Recommended actions are to encapsulate, label and program for planned removal during refit; manage &amp; re-inspect periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)</p>
ACM	Gasket	Port Deluge Pipework	-	H6860	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	External PS FI FI Hydrant	-	C0493	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External PS Deluge System	-	C0494	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External SS FI FI Hydrant	-	C0495	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External SS Deluge System	-	C0496	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Black Resin Toilet Seat	Owners Cabin En-Suite	-	C0497	0	-	-	-	-	-	Nil	Observed Toilet Seats In Accommodation Area Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Wide Bore Pipe In Vent Trunk	-	C0498	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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<b>Site Contact:</b> Chief Engineer	<b>Vessel:</b> Northwest Sanderling IMO:8608872	<b>Review Date:</b> 31st October 2024 ( Full re-inspection still due and has not been completed)

Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Wide Bore Pipe In Vent Trunk	-	C0499	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Narrow Bore Pipe In Vent Trunk	-	C0500	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Valve Gasket	Vent Trunk Aft SS Gate Valve	-	C4500	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Opposite Masters Bedroom	-	C4501	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Fire Hose Cupboard Opposite Radio Officers Cabin	-	C4502	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
<b>F Deck</b>												
ACM	Gasket	Air Connection Point Port	-	H6857	0	-	-	-	-	-	Nil	
ACM	Gasket	Port Fire Hydrant Flange	-	H6859	0	-	-	-	-	-	Nil	
ACM	Debris & Dust (Grey)	Electric Cable Space, Starboard Bulkhead (Around Cables)	138	H6965	4	2	2	3	2	10	A2	Item removed from service by Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Packing (White)	Electric Cable Space, Starboard Bulkhead (Around Cables)	139	H6966	1	1	1	1	2	6	A4	Recommended actions are to encapsulate, label and program for planned removal during refit; manage & re-inspect periodically.  Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.  Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)

<b>Surveyor:</b> Sam Martin	<b>Survey Type:</b> Asbestos Survey Type 2 (Partial re-inspection and refit survey)	<b>Date of Survey:</b> 31st October -1st November 2023
<b>Site Contact:</b> Chief Engineer	<b>Vessel:</b> Northwest Sanderling IMO:8608872	<b>Review Date:</b> 31st October 2024 ( Full re-inspection still due and has not been completed)

Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Packing	Electric Cable Space, Inboard Deck Head	140	H6967	1	1	1	1	2	6	A4	<p>Recommended actions are to encapsulate, label and program for planned removal during refit; manage &amp; re-inspect periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)</p>
ACM	Debris & Dust	Electric Cable Space, Below Inboard Deck Head	141	H6968	4	2	2	3	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Putty	Electrical Cable Trunking, Lighting Power Board "LO3"	142	H6969	1	0	1	1	1	4	A4	Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket Felt	Electrical Cable Trunking, Lighting Power Board "LO3" to Coupling	-	H6970	0	-	-	-	-	-	Nil	
ACM	Debris	Electrical Cable Trunking, Inboard Deck Head	143	H6971	4	2	2	3	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Debris	No.1 Equipment Room, Port FWD	144	H6972	4	2	2	3	2	40	A2	Item removed from service by 'Unrestricted Licensed Contractor PCB Holding Pty Ltd

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Debris & Dust	No.1 Equipment Room, Starboard Aft	145	H6973	4	2	2	3	2	40	A2	Item removed from service by Unrestricted Licensed Contractor PCB Holding Pty Ltd
ACM	Gasket "Tombo 1000" Blue Backing Black Font	No.2 Equipment Room, Shelf CA2	146	H6974	4	0	2	4	4	5	A3	Item removed from service by Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Gasket (Pink Backing Black Cursive Font)	No.2 Equipment Room, F3 DB4 722.12.01.G10 Boil Off Gas Valves	147	H6975	1	0	2	1	1	5	A3	Replace and Remove by trained and competent personnel.
ACM	Packing Gland	No.2 Equipment Room, F3 DE8 921.10.01.G01 Electromagnetic Seal	148	H6976	4	0	2	4	4	5	A3	Item removed from service by Unrestricted Licensed Contractor PCB Holdings Pty Ltd
ACM	Packing (Grey)	No.2 Equipment Room, Penetration Through Deck	149	H6977	1	1	1	1	2	6	A4	Recommended actions are to encapsulate, label and program for planned removal during refit; manage & re-inspect periodically.  Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.  Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Gasket	Flying Passage, Dome No.3 Air Outlet Flange	-	H6949	0	-	-	-	-	-	Nil	
ACM	Gasket	Flying Passage, Dome No.3 "VI 390" Blank	-	H6950	0	-	-	-	-	-	Nil	
ACM	Gasket	Flying Passage, Dome No.3 Valve Cover Wessel Level Gauge	-	H6951	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	Flying Passage, Dome. No.2 Air Connection Flange	-	H6952	0	-	-	-	-	-	Nil	
ACM	Gasket	Flying Passage, Dome No.2 "VI 290"	-	H6953	0	-	-	-	-	-	Nil	
ACM	Gasket	Flying Passage, Dome No.2 Wessel Level Gauge Cover	-	H6954	0	-	-	-	-	-	Nil	
ACM	Gasket	Flying Passage, Dome No.2 Deluge Flange	-	H6955	0	-	-	-	-	-	Nil	
ACM	Gasket	Flying Passage, Between Dome No.1 & No.2 D.C Box 2 Inlet Pipe Flange	-	H6956	0	-	-	-	-	-	Nil	
ACM	Gasket	Flying Passage, Dome No.1 "V 190"	-	H6957	0	-	-	-	-	-	Nil	
ACM	Gasket	Flying Passage, Dome No.1 Wessel Level Gauge Cover	-	H6958	0	-	-	-	-	-	Nil	
ACM	Gasket	Flying Passage, Dome No.1 Air Supply Connection Flange	-	H6959	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	Aft Deck, Compressed Air Outlet	-	C0490	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Aft Deck, Deck Vent Head Outlet	-	C0491	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Aft Deck, FI FI Hydrant	-	C0492	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External Port Side FI FI Hydrant	-	C0480	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External Port Side Deluge Pipework	-	C0481	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Conduit Sealant	Electric Cable Space, Cable Penetration to Forward Wall	-	C0482	0	-	-	-	-	-	Nil	Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Conduit Mastic Sealant	Electric Cable Space, Cable Penetration to Port Side Wall	-	C0483	1	1	1	1	1	5	A4	Surveyed December 2013 Re-sampled in 2017 returned positive result. Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)
ACM	Flange Gasket	SS Fire Hose Cupboard	-	C0484	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Wide Bore Pipe In Vent Trunk	-	C0485	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Narrow Bore Pipe In Vent Trunk	-	C0486	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	PS Fir Hose Cupboard	-	C0487	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Pre Cut Spare Gaskets - Blue TOMBO 1000	No.2 Equipment Room, Rack CA1	-	C0488	4	4	2	4	3	8	A2	Surveyed December 2013. Removed 2018
ACM	Damaged Gaskets - Blue VALQUA 6500	No.2 Equipment Room, Rack CB2	-	C0489	0	-	-	-	-	-	Nil	Surveyed December 2013
<b>G Deck</b>												
ACM	Gasket	Deluge System Flange	-	H6858	0	-	-	-	-	-	Nil	

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Packing	Cable Trunk Room (CRYO'S) FWD Bulkhead Penetration	136	H6962	1	1	1	1	2	6	A4	<p>Recommended actions are to restrict access, label and encapsulate. Manage &amp; re-inspect periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>Manage and remain in situ. Inspect periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removalist Contractor (LARC)</p>
ACM	Packing	Cable Trunk Room (CRYO'S) Deck Penetration	137	H6963	1	1	1	1	2	6	A4	<p>Recommended actions are to encapsulate, label and program for planned removal during refit; manage &amp; re-inspect for damage periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>This item is recommended to be removed by an "Unrestricted " Licensed Asbestos Removalist Contractor (LARC) owing to the friability of the product during removal.</p>
ACM	Fibre Board	Radio Room, Perforated Ceiling	-	H6964	0	-	-	-	-	-	Nil	
ACM	Gasket	Flying Passage, Bridge Deck, Fire Hydrant Flange Starboard	-	H6855	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	External Starboard Side FI FI Deluge System	-	C0471	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External Starboard Side FI FI Hydrant	-	C0472	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	External Port Side FI FI Deluge System	-	C0473	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	External Port Side FI FI Hydrant	-	C0474	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Starboard Side Fire Hose Cupboard	-	C0475	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Vent Trunk Narrow Bore Water Pipes	-	C0476	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Vent Trunk Wide Bore Water Pipes	-	C0477	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Black Resin Toilet Seat	Communal Toilet	-	C0478	0	-	-	-	-	-	Nil	Surveyed December 2013
ACM	Reinforced Plaster Walls	Admin Room	-	C0479	0	-	-	-	-	-	Nil	Present To Observed Walls Throughout. Surveyed December 2013
<b>Nav. Bridge</b>												
ACM	Gasket	Bridge Deck, Fire Hydrant Flange Port	-	H6856	0	-	-	-	-	-	Nil	
ACM	Low Density Board	Port FWD (Cavity Behind Heater)	-	H6960	0	-	-	-	-	-	Nil	
ACM	Gasket	Port FWD (Cavity Behind Heater) Window Wiper Wash Valve	-	H6961	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	External Port Side FI FI Pipework	-	C0466	0	-	-	-	-	-	Nil	Starboard Side Pipework Gaskets Visually Identical. Surveyed December 2013
ACM	Flange Gasket	External Aft Deluge System	-	C0467	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Bridge Port Side Fire Hose Cupboard	-	C0468	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Flange Gasket	Bridge Port Side Cupboard Windscreen Mist System	-	C0469	0	-	-	-	-	-	Nil	Other Gaskets In This Location Are Black Rubber. Surveyed December 2013

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Bridge Starboard Side Fire Hose Cupboard	-	C0470	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar. Surveyed December 2013
ACM	Packing (Grey)		-	H6854	P1	1	1	1	2	6	A4	<p>Recommended actions are to encapsulate, label and program for planned removal during refit; manage &amp; re-inspect for damage periodically.</p> <p>Care is to be taken during re-fit owing to the materials potentially becoming friable due to mechanical action during maintenance, refurbishment or breaking up of the vessel.</p> <p>This item is recommended to be removed by an 'Unrestricted' Licensed Asbestos Removalist Contractor (LARC) owing to the friability of the product during removal.</p>
ACM	Flange Gasket	Monkey Island, FI FI Deluge System	-	C0464	0	-	-	-	-	-	Nil	Observed Gaskets In This Line Are Visually Similar
ACM	Flange Gasket	Monkey Island, External Port Side FI FI Hydrant	-	C0465	0	-	-	-	-	-	Nil	Starboard Side Hydrant Gaskets Visually Identical. Surveyed December 2013
<b>Vessel Wide - Throughout</b>												
ACM	Lagging / penetrations	Throughout	-	N/A	-	-	-	-	-	-	A3	Observed bulkhead and Deck penetrations must be assumed to contain asbestos. Penetrations should be individually tested prior to disturbance or treated appropriately.
ACM	Gaskets	Throughout	-	N/A	-	-	-	-	-	-	A3	Observed gasket materials in plant and equipment must be assumed to contain asbestos unless sampled negative

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Hazard	Material Description	Location	Photograph No.	Asbestos Fibre Type	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Mastics	Throughout	-	N/A	-	-	-	-	-	-	A3	Observed mastics and sealants should be assumed to contain asbestos. Observed mastics/caulking materials are to be individually tested prior to disturbance.

## APPENDIX B: LABORATORY ANALYSIS CERTIFICATE

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## Bulk Identification Report

**Job No:** 754-PEREN324141 Bulk ID Report Shell Sanderling 08112023  
**Client:** Shell Tankers  
**Client Address:** N/A

**Contact:** Sam Martin  
**E-mail:** [sam.martin1@tetratech.com](mailto:sam.martin1@tetratech.com)  
**Date Sampled:** 01-11-23  
**Date Analysed:** 09-11-23  
**Date Authorised:** 09-11-23  
**Sampled By:** Sam Martin  
**Site:** Shell Sanderling



Accredited for compliance with ISO/IEC 17025 - Testing  
 Accreditation No:2220  
 Corporate Site No:16909

Please note: Where you have provided the samples for analysis, Tetra Tech Coffey Pty Ltd does not take any responsibility for the quality of the such samples. This report relates exclusively to the samples analysed by Tetra Tech Coffey Pty Ltd and as such only the samples submitted or collected for analysis have been considered in presenting these results. The data and results contained in this report are not representative of the site, product or source material as a whole. Tetra Tech Coffey Pty Ltd does not make any warranty or representation in relation to the site, product or source material as a whole. If you suspect any material to contain asbestos, then you must immediately stop the works and activities at the site or in respect of the materials and engage Tetra Tech Coffey Pty Ltd or another suitably trained asbestos hygienist to sample, assess or re-assess (as the case may be) the material suspected to contain asbestos.

### Asbestos in Bulk Samples and Non-homogenous Material

**Test Method:** Tetra Tech Coffey Pty Ltd analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi-quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Tetra Tech Coffey Pty Ltd's NATA approved SOP WILAB1 sample retention periods are set at 1 month for all samples from the date of analysis.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory, Level 20, Tower B, Citadel Towers 799 Pacific Highway Chatswood NSW 2067

**Total Samples:** 51

**Approved Identifier**  
 Panika Wongchanda & Matthew Tang

**Approved Signatory**  
 Matthew Tang

Sample No.	Location & Description	Sample Size (~)	Results
ZA7501	Gasket - distilled plant ejector pump outlet bottom deck - White painted black fibrous gasket material	17 x 11 x 3 mm	No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected
ZA7502	Lagging - main turbine drain to flash chamber bottom deck - Beige vitreous fibrous woven insulation material	40 x 10 x 2 mm	No asbestos fibres detected Synthetic mineral fibres detected
ZA7503	Gasket - Er bulge pump suction bottom deck - Green fibrous gasket material	13 x 5 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA7504	Gasket - fuel line pressurising pump oh bottom deck - Blue fibrous gasket material	13 x 3 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA7505	Gasket - fire line pressurising pump ejector outlet - Bottom deck - Green fibrous gasket material	34 x 14 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA7506	Gasket - hychlorator scoop supply 4 th deck - Blue painted beige fibrous gasket material	12 x 8 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA7507	Gasket no2 vacuum pump cooler aft 4th deck - Blue fibrous gasket material	12 x 6 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA7508	Gasket purifier no1 oil outlet hose - Blue fibrous gasket material	10 x 3 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA7509	Gasket - crank case cover purifier1 4th deck - Blue fibrous gasket material	25 x 2 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA7510	Insulation - lab sample cooler outlet - White vitreous fibrous woven sheet material	70 x 25 x 1 mm	No asbestos fibres detected Synthetic mineral fibres detected

Sample No.	Location & Description	Sample Size (-)	Results
ZA7511	Gasket - Workshop loose pump casing valve blue gasket - Blue fibrous gasket material	32 x 17 x 3 mm	No asbestos fibres detected Organic fibres detected
ZA7512	Gasket - workshop 3rd deck steam inlet no2 bunker tank - Silver layered gasket material	10 x 4 x 2 mm	No asbestos fibres detected
ZA7513	Putty - no3 steering gear pump 3rd deck - Grey sticky mastic material	12 x 8 x 2 mm	<b>Chrysotile (white asbestos) detected</b> <b>Organic fibres detected</b>
ZA7514	Gasket - Heli deck Fifi foam pump outlet 3rd deck - Blue painted beige fibrous gasket material	10 x 2 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA7515	Gasket - Fresh water pressuring tank drain - Blue fibrous gasket material	9 x 3 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA7516	Gasket - main gen 1 air manifold aft - Blue fibrous gasket material	14 x 10 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA7517	Gasket - Main gen 1 crankcase vent 5 - Green fibrous gasket material & amber adhesive	8 x 2 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA7518	Gasket - turbine gen filter outlet 3rd deck - Brown fibrous gasket material	15 x 6 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA7519	Gasket - air cooler water gen 2 3rd deck - Grey painted brown fibrous gasket material	7 x 4 x 2 mm	<b>Chrysotile (white asbestos) detected</b> <b>Organic fibres detected</b>
ZA7520	Gasket - Temp gauge main gen 2 3rd deck - Beige fibrous gasket material	11 x 6 x 1 mm	<b>Chrysotile (white asbestos) detected</b>
ZA7521	Gasket - Exhaust gasket main gen 2 3rd deck - Brown fibrous gasket material & attached grey soft mastic material	20 x 4 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA7522	Gasket - accommodation grey water drain 2nd deck - Blue fibrous gasket material	17 x 5 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA7523	Insulation - 1 mpa pressure reducing valve 2nd deck - Brown vitreous fibrous insulation material	60 x 45 x 4 mm	No asbestos fibres detected Organic fibres detected
ZA7524	Gasket - incinerator fuel oil supply 605 A deck - Beige fibrous gasket material	20 x 6 x 1 mm	No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected
ZA11565	Gasket - No1 distilled water tank outlet pipe 3rd deck - Blue fibrous gasket material	10 x 4 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA11566	Gasket - sewage treatment plant overboard discharge pipe 3rd deck - White painted blue/beige fibrous gasket material	20 x 12 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA11567	Gasket - dispel oil return gen 1 3rd deck - Blue fibrous gasket material	4 x 3 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA11568	High temp gasket - main team turbine bk4 - Silver layered gasket material	80 x 35 x 3 mm	No asbestos fibres detected
ZA11569	Packing material - BH5 c8 - Black vitreous fibrous materials	13 x 2 x 1 mm	No asbestos fibres detected Synthetic mineral fibres detected
ZA11570	Gasket - AD3 small - Black rubbery gasket material	22 x 22 x 1 mm	No asbestos fibres detected
ZA11571	Wall panel - Workshop walks to mezzanine - Beige fibrous plaster board material	62 x 49 x 6 mm	No asbestos fibres detected Synthetic mineral fibres detected
ZA11572	gasket - old valves workshop - Brown fibrous gasket material	27 x 13 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA11573	Gasket - old valve box upper mezzanine workshop - Silver layered gasket material	68 x 30 x 2 mm	No asbestos fibres detected
ZA11574	Cement board - Workshop phone booth - Beige layered fibre cement sheet material	10 x 4 x 1 mm	<b>Chrysotile (white asbestos) detected</b> <b>Organic fibres detected</b>

Sample No.	Location & Description	Sample Size (-)	Results
ZA11575	Gasket - lube ball cooler no2 db - Brown fibrous gasket material & amber adhesive	28 x 8 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA11576	Gasket - lube ball controller no1 db - Green fibrous gasket material	4 x 2 x 1 mm	No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected
ZA11577	Putty - cathelco cable penetration - Green paint & beige hardened mastic material	8 x 2 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA11578	Gasket - Sight glass bulge primary tank 4th deck - Beige fibrous powdery mica vermiculite material	13 x 4 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA11579	Cement sheet - phone booth tank top adjacent stairs to 4th deck - Green painted beige layered fibre cement sheet material	5 x 4 x 2 mm	<b>Chrysotile (white asbestos) detected</b> <b>Organic fibres detected</b>
ZA11580	Gasket no1 ccs seawater pump suction - Brown fibrous gasket material	10 x 5 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA11581	Gasket - D.O. Transfer Pump Cross pipework purifier room 4 path deck - Blue fibrous gasket material	8 x 4 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA11582	Gasket - cooling water supply clean drains tank 4th deck - Blue fibrous gasket material	23 x 8 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA11583	Gasket - seawater vent line aux condenser tank top - Blue painted beige fibrous gasket material	16 x 3 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA11584	Gasket - drains pump tank top pipework - Blue fibrous gasket material	9 x 8 x 2 mm	No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected
ZA11585	Mastic to cables adjacent atmospheric drains tank top - Grey soft mastic material	20 x 6 x 1 mm	<b>Chrysotile (white asbestos) detected</b> <b>Organic fibres detected</b>
ZA11586	Loose gasket - Top of atoms tank - Brown fibrous gasket material	33 x 12 x 3 mm	No asbestos fibres detected Organic fibres detected
ZA11587	gasket - Main condenser spray flange tank top - Grey painted orange fibrous gasket material	10 x 3 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA11588	Gasket - first stage feed heater level controller - Silver painted brown fibrous gasket material	7 x 1 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA11589	Calcium block - steam line 1st stage water heater tank top - Beige fibrous plaster material	21 x 10 x 4 mm	No asbestos fibres detected Organic fibres detected
ZA11590	Gasket - stern tune berance line - Beige fibrous gasket material	3 x 2 x 1 mm	<b>Chrysotile (white asbestos) detected</b>
ZA11591	Gasket - scupper drain to aft bulge - Black fibrous gasket material	7 x 6 x 1 mm	No asbestos fibres detected Organic fibres detected

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## APPENDIX C: RISK ASSESSMENT & GLOSSARY

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Tetra Tech Coffey adopts the following risk assessment algorithm in order to assess the risks associated with individual asbestos-containing materials identified:

## ASBESTOS REGISTER SECTION

### Friable

Variable	Score	Description
Friability	Y	Asbestos cement debris, or material which when dry may become crumbled, pulverised or reduced to powder by hand pressure.
	N	Bonded i.e. non-friable material

### Materials Assessment

Variables	Scores	Examples of Score Descriptions
Asbestos Type	0	No asbestos
	1	Chrysotile only
	2	Amphibole asbestos (excluding crocidolite)
	3	Crocidolite
Product Type	0	No asbestos detected
	1	Bonded asbestos in good condition
	2	Friable asbestos in good condition or cement in poor condition
	3	Friable asbestos in poor condition
Extent of Damage	0	No visible damage
	1	Minor scratches or mark, broken edges
	2	Significant breakage, many small areas of damage to friable material
	3	High damage, visible debris
Surface Treatment	0	Bonded Asbestos including encapsulated asbestos cement
	1	Enclosed laggings, sprays and boards or bare cement
	2	Bare board or encapsulated lagging/spray or cement debris
	3	Unsealed lagging/spray

## Location Assessment

Variables	Scores	Examples of Score Descriptions
Occupant Activity	0	Rare disturbance, e.g. little used store room
	1	Low disturbance, e.g. Office type activity
	2	Periodic disturbance, e.g. industrial or vehicular activity which may contact ACMs
	3	High levels of disturbance e.g. fire door with AIB sheet in constant use
Likelihood of Disturbance	0	Usually inaccessible or unlikely to be disturbed
	1	Minimal likelihood for disturbance
	2	Likely disturbance
	3	Frequent disturbance
Human Exposure Potential	0	Infrequent
	1	Monthly
	2	Weekly
	3	Daily
Maintenance Activity	0	Minor disturbance (e.g. possibility of contact when gaining access)
	1	Low Disturbance (e.g. changing light bulbs in AIB ceiling).
	2	Medium disturbance (e.g. lifting one or two ceiling tiles to access a valve)
	3	High level of disturbance (e.g. moving a number of AIB ceiling tiles to replace a valve or for re-cabing)

## Risk Score

The asbestos-containing material risk score is a quantitative assessment determined by the sum of the scores based on the Materials and Location Assessments, i.e. Risk score = Material Score + Location Score (out of as possible 24).

Should no asbestos be detected then the register will indicate a risk score of 0.

Variable	Scores	Examples of Score Descriptions
Risk Score	2 - 4	Very Low Risk - Action Score A5
	5 - 7	Low Risk - A4
	8 - 11	Medium Risk - Action Score A3
	12 - 15	High Risk - Action Score A2
	16 - 24	Very High Risk - Action Score A1

### Action Ratings

<b>A1</b>	<b>Action 1</b>	<p><b>Restrict Access, Manage and Remove Under Fully Controlled Conditions</b></p> <p>As a guide, the material conforms to one, or more, of the following:</p> <ul style="list-style-type: none"> <li>Friable or poorly bonded to substrate, located in accessible areas</li> <li>Severely damaged/water damaged, or unstable</li> <li>Further damage or deterioration likely</li> <li>Friable asbestos material located in air conditioning ducting</li> <li>Asbestos debris in reasonably accessible areas</li> </ul>
<b>A2</b>	<b>Action 2</b>	<p><b>Restrict Access, Manage and Remove Utilising Appropriate Control Measures</b></p> <p>As a guide, the material conforms to one, or more, of the following:</p> <ul style="list-style-type: none"> <li>Damaged material (including debris)</li> <li>In a reasonably accessible area</li> <li>Possibility of disturbance through contact</li> <li>Stored asbestos material in reasonably accessible areas</li> </ul>
<b>A3</b>	<b>Action 3</b>	<p><b>Program for Planned Removal, Manage &amp; Re-inspect Periodically</b></p> <p>As a guide, the material conforms to one, or more, of the following:</p> <ul style="list-style-type: none"> <li>Further disturbance or damage unlikely other than during maintenance or service</li> <li>Readily visible for further assessment</li> <li>Asbestos debris in rarely accessed areas</li> <li>Possibility of deterioration caused by weathering</li> <li>Poorly bonded to substrate with bonding un-achievable</li> </ul>
<b>A4</b>	<b>Action 4</b>	<p><b>Enclose, Encapsulate or Seal, Manage &amp; Re-inspect Periodically</b></p> <p>As a guide, the material conforms to one, or more, of the following:</p> <ul style="list-style-type: none"> <li>Damaged material in reasonably accessible area</li> <li>Bonded asbestos products located in accessible areas</li> <li>Friable material or poorly bonded to substrate with bonding achievable</li> <li>Possibility of fibre release through non aggressive disturbance or contact</li> <li>Possibility of deterioration caused by weathering and bonding possible</li> </ul>
<b>A5</b>	<b>Action 5</b>	<p><b>Manage &amp; Re-inspect Periodically</b></p> <p>As a guide, the material conforms to one, or more, of the following:</p> <ul style="list-style-type: none"> <li>Firmly bonded to substrate and readily visible for inspection</li> <li>Inaccessible and / or fully contained</li> <li>Stable and damage unlikely</li> </ul>

### Action Required

The Tetra Tech Coffey consultant surveying the vessel may complete conduct remedial actions (including restricted access to stored materials) where suspect materials are identified until laboratory testing can be completed. Where negative results for samples are returned the items/materials may return to circulation.

<b>R</b>	Return to Service	<b>Restricted Access to Items for Reassurance</b>
	Return to Service	Return to Service, No Asbestos Detected

## APPENDIX D: LEGISLATIVE REQUIREMENTS

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## LEGISLATIVE REQUIREMENTS

The assessment, and preparation of this report have been undertaken in accordance with the requirements of State/Territories legislation and standards outlined below.

### State/Territories relevant legislation

States & Territories	Acts	Legislation
<b>Western Australia (WA)</b>	Work Health and Safety Act 2020	Work Health and Safety (General) Regulations 2022

### States/Territories code of practices & compliance codes

States & Territories	Codes of Practices & Compliance Codes	
<b>Western Australia (WA)</b>	Code of Practice for Management and Control of Asbestos in Workplaces [NOHSC:2018(2005)].	Code of Practice for the Safe Removal of Asbestos [NOHSC:2002(2005)]

Each section is to be read in conjunction with the whole of this report, including the appendices.

## APPENDIX E: METHODOLOGY

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## METHODOLOGY

Asbestos surveys are undertaken considering a risk management approach, in accordance with relevant statutory regulations and relevant Codes of Practice. A risk assessment was conducted based on a number of factors associated with ACM identified during the survey and prioritised through Risk and Action Classifications.

The assessment involved the onsite investigation for the presence of ACM. Information was collected from the site owners/occupiers/tenants where available on relevant issues pertaining to the site. Based on the available data and the status at the time of inspection, where items were identified, visual and/or analytical characterisation (where required) was performed and reported in **Appendix A: Asbestos Register**.

The assessment was conducted on the basis of the condition, type and location of the materials at the time of inspection. The scope of this investigation did not allow intrusive sampling techniques to be undertaken in all locations, and consequently the register may have limitations as a reference document for the purposes of renovation or demolition.

Only 'typical' suspected material occurrences are inspected and sampled. Sampling is undertaken on a representative basis, for example, the inspection of one fire door of the same type within the same area is undertaken (i.e. not every 'matching' fire door is examined), unless specifically instructed. Sample collection was performed in a non-destructive and non-invasive manner by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas contain asbestos materials may also be made and stated within the register.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with relevant Statutory Regulations, Codes of Practice and Tetra Tech Coffey's Work Instructions. Laboratories undertaking analysis are appropriately NATA certified for the analysis conducted.

The presence of asbestos in bulk samples is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques. Where asbestos was found to exist, a risk assessment was conducted on each item and a priority rating applied. This was conducted in accordance with the protocols described in **Section 4: Risk Assessment**.

The asbestos register is made up of relevant information gathered on site plus Tetra Tech Coffey's assessment of risk and assignment of action ratings. Reference to photographs, where available, is made in the register along with sample identification and analysis results, where applicable. Sample analysis results from previous assessments may be utilised and referenced in this register.

## APPENDIX F: STATEMENT OF LIMITATIONS

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## STATEMENT OF LIMITATIONS

This report and the associated services performed by Tetra Tech Coffey are in accordance with the scope of services set out in the contract between Tetra Tech Coffey and the Client. The scope of services was defined by the requests of the Client, by the time and budgetary constraints imposed by the Client, and by the availability of access to the site.

Tetra Tech Coffey derived the data in this report primarily from visual inspections, examination of available records, interviews with individuals with information about the site, and if requested, limited sample collection and analysis made on the dates indicated. In preparing this report, Tetra Tech Coffey has relied upon, and presumed accurate, certain information provided by government authorities, the Client and others identified herein. The report has been prepared on the basis that while Tetra Tech Coffey believes all the information in it is deemed reliable and accurate at the time of preparing the report, it does not warrant its accuracy or completeness and to the full extent allowed by law excludes liability in contract, tort or otherwise, for any loss or damage sustained by the Client arising from or in connection with the supply or use of the whole or any part of the information in the report through any cause whatsoever.

Limitations also apply to analytical methods used in the identification of substances (or parameters). These limitations may be due to non-homogenous material being sampled (i.e. the sample to be analysed may not be representative), low concentrations, the presence of 'masking' agents and the restrictions of the approved analytical technique. As such, non-statistically significant sampling results can only be interpreted as 'indicative' and not used for quantitative assessments.

The data, findings, observations, conclusions and recommendations in the report are based solely upon the state of the site at the time of the investigation. The passage of time, manifestation of latent conditions or impacts of future events (e.g. changes in legislation, scientific knowledge, land uses, etc.) may render the report inaccurate. In those circumstances, Tetra Tech Coffey shall not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance on, the contents of the report.

This report has been prepared on behalf of and for the exclusive use of the Client and is subject to and issued in connection with the provisions of the agreement between Coffey and the Client. Tetra Tech Coffey accepts no liability or responsibility whatsoever and expressly disclaims any responsibility for or in respect of any use of or reliance upon this report by any third party or parties.

It is the responsibility of the Client to accept if the Client so chooses any recommendations contained within and implement them in an appropriate, suitable and timely manner.

## Asbestos Survey

Asbestos Surveys are non-destructive and as such are not intended for use or referral for the purpose of breaking up of vessels, refit, repair or rebuild and modification or structural alterations. In the event of future breaking up, refit, repair or rebuild and modification or structural alterations further investigation, which may entail destructive testing, shall be required.

No inspection can be guaranteed to locate all asbestos on board a vessel. The assessment cannot be regarded as absolute, without extensive invasion of vessels. Future breaking up and or modification to vessels may expose situations, which were concealed or otherwise impractical to access during this assessment.

Tetra Tech Coffey assessors take samples at any situations known, or suspected, to contain Asbestos. Where the analysis determines that No Asbestos is Detected (NAD) the samples are listed in the report to provide information for future assessments.

Representative sampling is defined as one like sample per consistent material type, situation or item. In these instances, only one test sample will be collected for analytical confirmation and the results expressed as consistent and typical of the site.

Due to the very low concentration of asbestos fibres and the non-homogenous matrix of vinyl floor tiles, false negative results may be obtained. Therefore, the accuracy of all results cannot be guaranteed.

Notably, with some asbestos containing bulk material it can be very difficult, or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

The analysis of many asbestos products used as a component of insulation materials, may be compromised in instances where the material has been heat affected, as heat may alter the morphology of the fibrous material.

The Client must not rely on an inspection or report as indicating that a site is “asbestos free”. All that the report can be relied upon to show is that no asbestos was found (or that only such asbestos was found as was reported to be found) in the course of the inspection. The findings of the report must be considered together with the specific scope and limitations of the type of inspection undertaken.