



Asbestos Materials Refit survey and partial reinspection

NW Snipe

Shell Tankers Australia Pty Ltd



Reference: 754-PEREN324142

19 December 2023

ASBESTOS MATERIALS REFIT SURVEY AND PARTIAL REINSPECTION

NW Snipe

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QUALITY INFORMATION

Revision history

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EXECUTIVE SUMMARY¹

Tetra Tech Coffey Pty Ltd completed an update of the asbestos materials register on board the Northwest Sanderling between 24th October – 25th October 2023 whilst 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 subjected to maintenance activities, and further systems that had not been completely sampled:

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 a competent person.

¹ 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 Snipe to in Dampier WA.

The assessment was undertaken between 24th October – 25th October 2023 as a Post Refit assessment to sample locations where equipment has been worked on, refurbished or replaced during the refit at dock.

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 Snipe was constructed as a Moss Rosenberg (LNG - NWS-class) LNG Gas Bulk Carrier in 1990 built at Mitsui Engineering & Shipbuilding's China Yard and delivered in June 1990. 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			
Vessel Name:	North West Snipe		
Location of Survey:	Dampier, WA	Built Year & Location:	1990, Japan
Gross Tonnage:	105,010 tonnes	Length:	272.00 m
Beam:	47.0 m	Draught:	11.39 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

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. Ben Wright, Licensed Asbestos Assessor (NTWS-AA-484294) 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

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.

- Putty, Cable penetrations to Boiler Gauge Board, Boiler tops – Encapsulate.
- Putty, Cable Conduit, engine room, AFT JSTN electrical Box - Encapsulate
- Putty, Cable Conduit, 4th Deck ER Starboard FWD, Aux Feed Pump – Encapsulate
- Putty, Cable penetrations, 3rd Deck, ER workshop, Milling machine – Encapsulate
- Putty, Cable penetrations, 3rd Deck, ER workshop, Port side welders bay – Encapsulate
- Putty, Cable penetrations, 3rd Deck, ER workshop, Starboard Side Control Box adjacent to Lathe – Encapsulate
- Gasket, Sight Glass, 3rd Deck, Steering Flat, Steering Gear Port Side Hydraulic Tank – Encapsulate
- Gasket, No.1 Diesel Generator, 2nd Deck – 2SA AB3 – Remove
- Gasket, Emergency Diesel Generator Intake Manifold – 2nd Deck 2SA AE4 – Remove
- Cable penetrations Debris, Upper Deck, Distribution Room – Remove
- Putty, Cable conduit, Upper Deck Pipe passage, UPPD, Port, Frame 87 Electrical Box – Encapsulate
- Putty, Cable penetration, E Deck, electrical Cable trunk AFT – Encapsulate
- Putty, Cable penetration, F Deck, Cable Store, Port Side – Encapsulate
- Packing Material, Navigation Bridge – FWD access panel adjacent X Band Node 3 - Encapsulate
- Packing Material, Navigation Bridge, Cabinet adjacent to navigation light switch board panel - Encapsulate
- Packing Material, Navigation Bridge, wheel house desk panels – 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

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)

Work Health and Safety (General) Regulations 2022

Work Health and Safety Act 2020 (WA)

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 2008.

5. PHOTOGRAPHS



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)

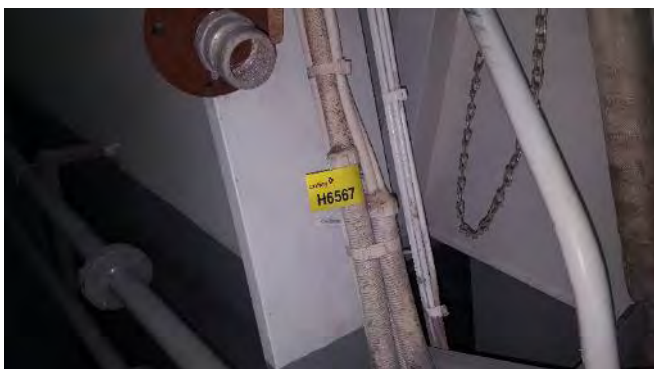


Photo 9

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)

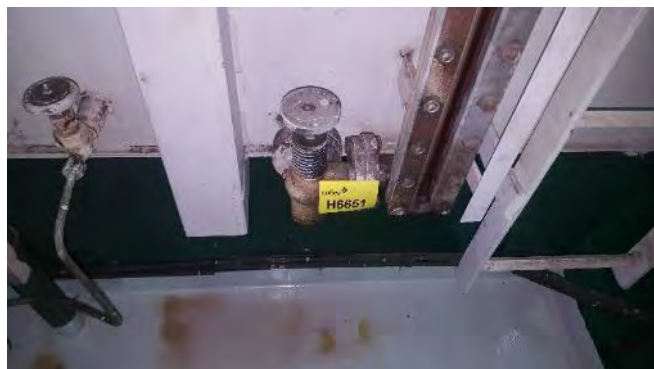


Photo 30
H6651
3rd Deck, Engine Room, Turbine Oil Gravity Tank Lower Valve, Gasket (Chrysotile)



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)

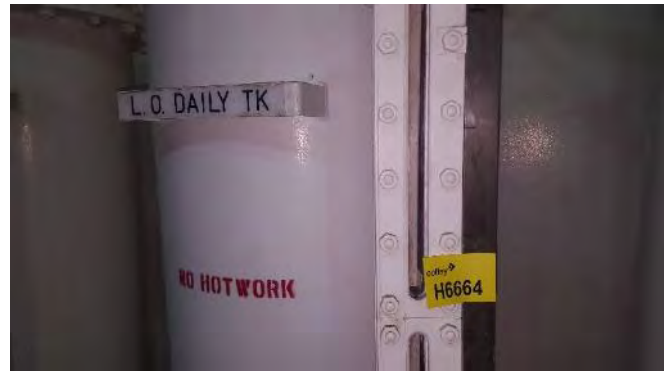


Photo 34
H6664
3rd Deck, Engine Room, L.O. Daily Tank Level Sight Glass, Gasket
(Chrysotile)



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)

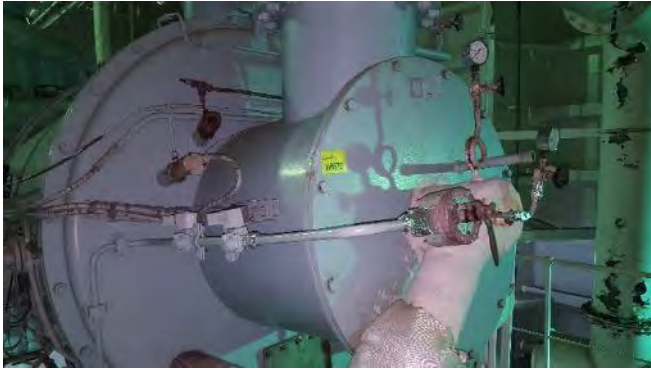


Photo 37
H6673
3rd Deck, IGG Room, Burner End Cover, Gasket (Chrysotile)



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)

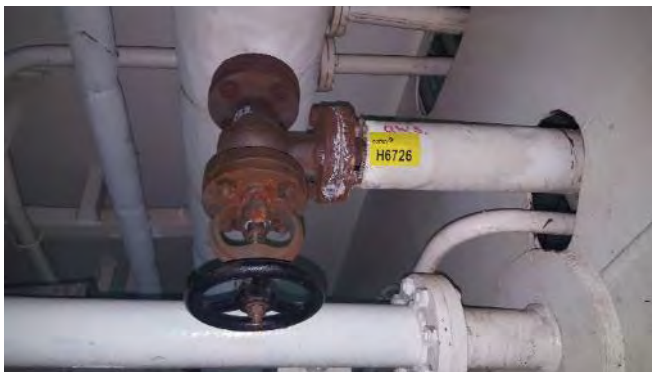


Photo 65
H6726
2nd Deck, 2PA, OWS Valve, Gasket (Chrysotile)



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)

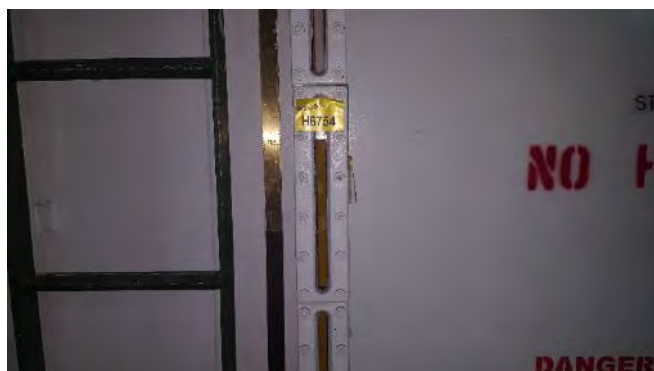


Photo 76
H6754
2nd Deck, L.O. Storage Tank "F" Level Gauge Glass, Gasket (Chrysotile)

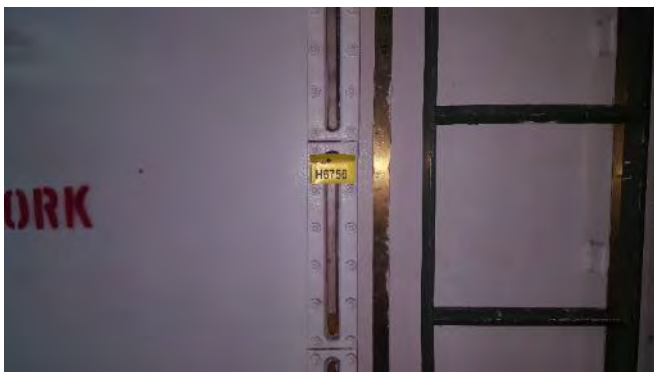


Photo 77
H6756
2nd Deck, L.O Storage Tank "A" Level Gauge Glass, Gasket (Chrysotile)



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)

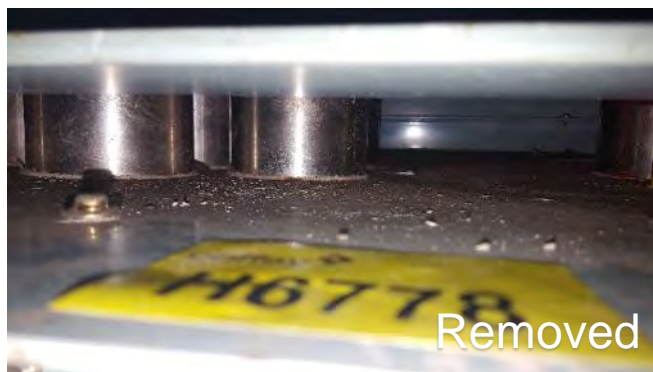


Photo 88
H6778
2nd Deck, No.1 Main Switchboard Room, Top of Electrical Cabinet, Mixed Debris (Chrysotile)



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)

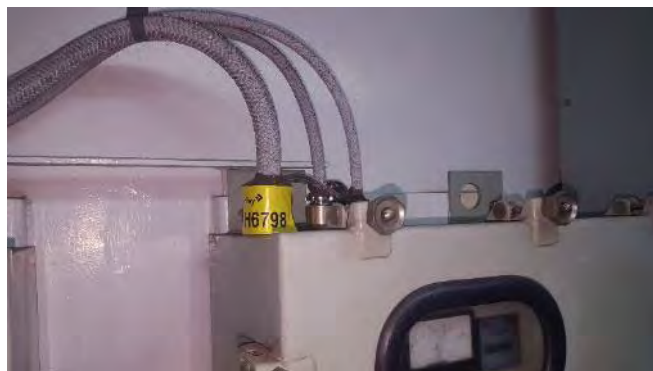


Photo 96
 G6798
 Upper Deck, Emergency S/B Room No1 Engine Room Supply Fan Cabinet, Putty (Chrysotile)



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)

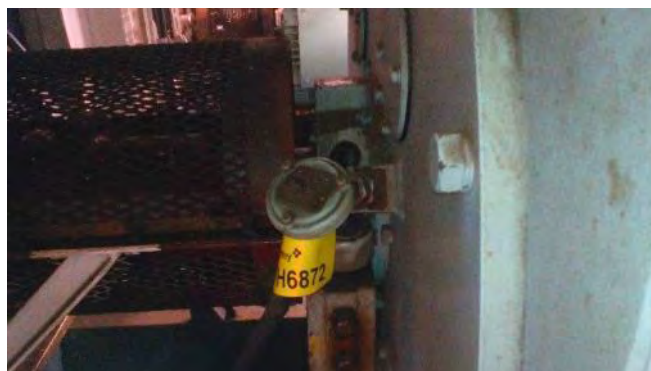


Photo 116
H6872
Upper Deck, Cargo Motor Room, Control Air Line Aft Bulkhead Between No.1 & No.2 L.D. Compressors, Gasket (Chrysotile)



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)

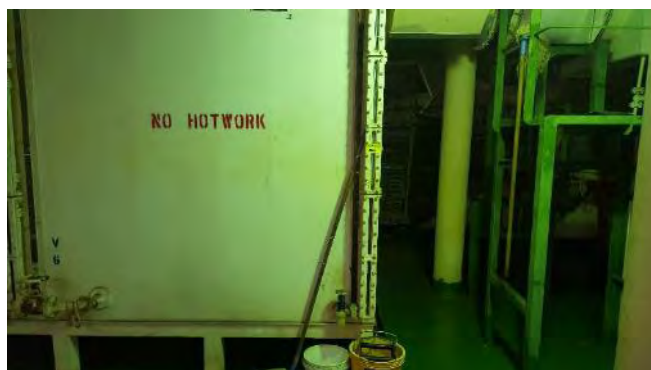


Photo 124
H6890
Upper Deck, Cargo Motor Room, No.1 H.D L.O Gearbox Sump, Gasket (Chrysotile)



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)

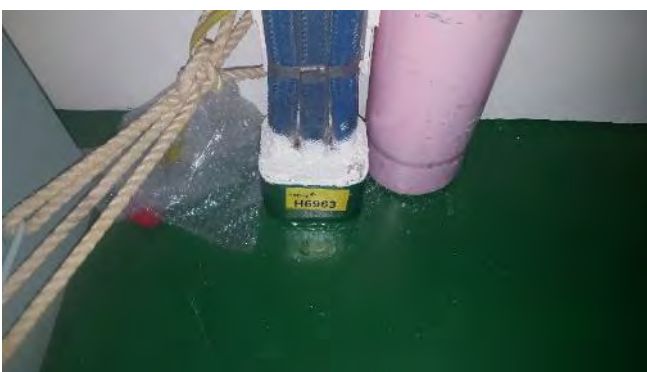


Photo 137
H6963
Nav. Bridge, Cable Trunk Room (CRYOS) Deck Penetration, Packing (Chrysotile)



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

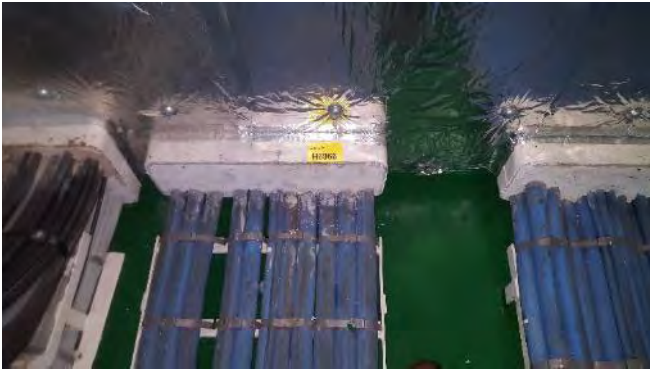


Photo 139
G6966
F Deck, Electric Cable Space, Starboard Bulkhead(Around Cables), Packing (White) (Chrysotile)



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)

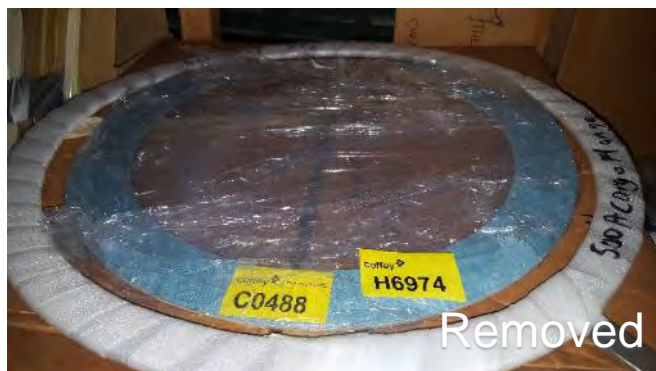


Photo 146
H6974
F Deck, No.2 Equipment Room, Shelf CA2, Gasket "Tombo 1000" Blue Backing Black Font (Chrysotile)



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)

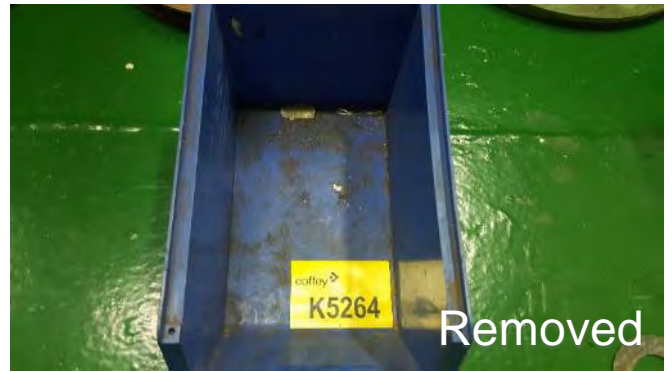


Photo 164

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)

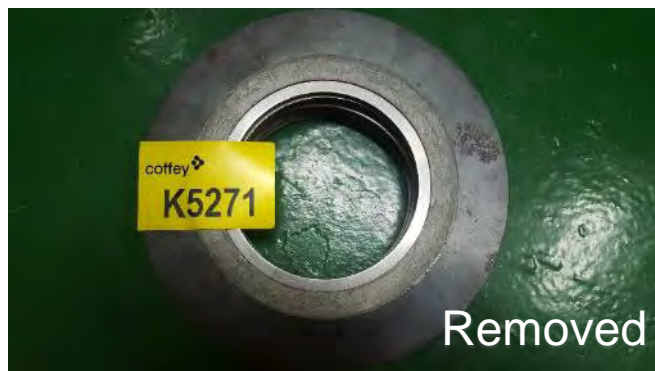


Photo 170
K5271
2nd Deck, 2SA, BJ2, Spiral Wound Medium Size Loose No Brand (Various Makes) (Chrysotile)

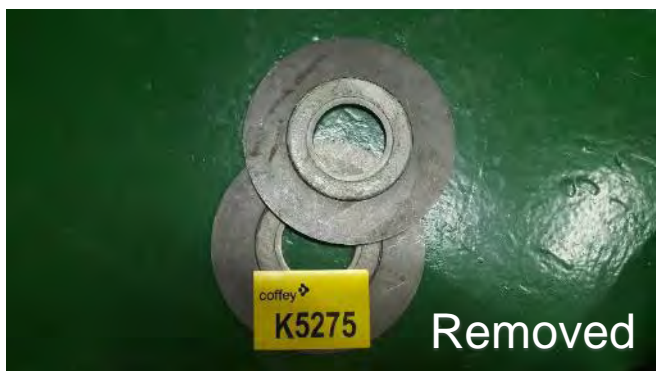


Photo 171
K5275
2nd Deck, 2SA, BJ2, Spiral Wound Gasket White Sealing Element (No Brand) 9 lb's – 58 (Chrysotile)



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)

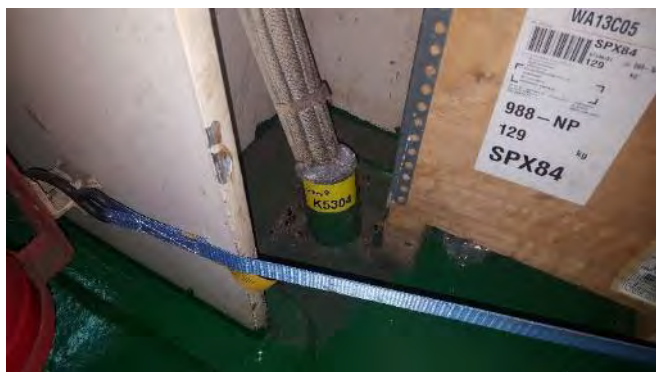


Photo 177

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)

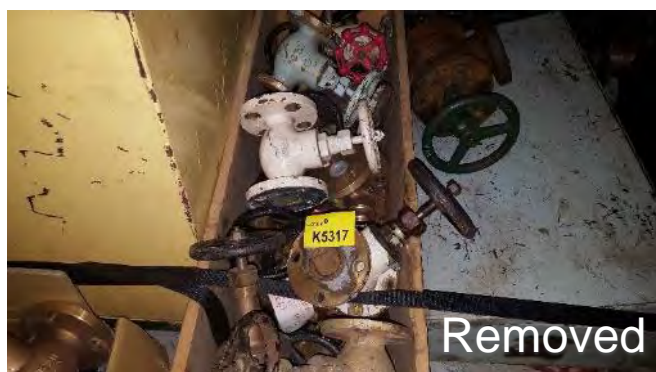


Photo 180

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)

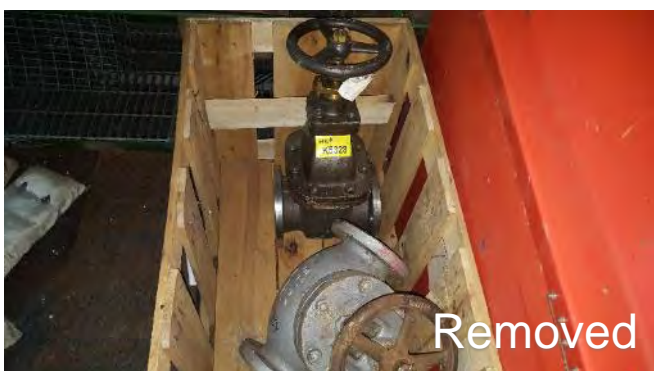


Photo 185
K5328
3rd Deck, Workshop Mezzanine, Large Wooden Crate Stored Large Valves, Brass Valve Bonnet, Gasket (Chrysotile)



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

Surveyor: Ben Wright		Survey Type: Post Refurbishment update				Date of Survey: October 2023						
Site Contact: Chief Engineer		Vessel: Northwest Snipe IMO:8608884				Review Date: October 2024						
Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
All Decks												
ACM	Penetration Packing Material	All Penetrations	-	-	-	-	-	-	-	-	-	Due to the identification of asbestos containing material within bulkhead and deck penetrations at a significant number of locations it is prudent to presume all putty material as Asbestos containing until confirmed non Asbestos containing.
ACM	Putty	All Cable Conduit terminations		-	-	-	-	-	-	-	-	Due to the identification of asbestos containing putty within a significant number of electrical cable conduits it would be prudent to presume all putty material as asbestos containing until confirmed non asbestos containing.
ACM	Gaskets	All Joints and seals with Gaskets		-	-	-	-	-	-	-	-	Due to the identification of asbestos containing gaskets within a significant number of systems it would be prudent to treat all gaskets material as asbestos containing until confirmed non asbestos containing.
Tank Top												
ACM	Lagging	Boiler Tops, No.2 Boiler HFO Mouth Lagging	-	ZA22446	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Lagging	Boiler Tops, No.2 Boiler Gauge Glass	-	ZA22445	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Putty/Cable Penetrations	Boiler Tops, Cable Penetrations to Boiler Gauge Board	-	ZA22444	1	0	1	1	1	4	A4	Surveyed October 2023. Grey in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Insulation Debris/Laggin	Boiler Tops, Above Airator outlet line	-	ZA22443	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Lower Plates, Port FWD, No.1 FWG ejector pump Discharge	-	ZA22442	0	-	-	-	-	-	Nil	Surveyed October 2023

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Cabling/Woven Material	Lower Plates, Port FWD, No.1 Ballast Pump	-	ZA22441	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Lower Plates, Port AFT Bilge Piping	-	ZA22425	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Lower Plates, Port FWD Inductor	-	ZA22424	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Port Condensor, Upper Float transmitter	-	ZA22422	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Tank Top Centre, Main lube oil cooler	-	ZA22423	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Starboard forward, Bilge Pipe section	-	ZA22418	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Flange Gasket	Tank Top - Engine Room - Aux Circuit PP Intake Flange Gasket - Lower Walkway	1	FD0654	P1	0	1	1	0	3	A4	Survey 2018 . Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary) Organic Fibres Detected
ACM	Flange Gasket	Tank Top - Engine Room - Condensate Outlet Valve	2	FD0655	P1	0	1	1	0	3	A4	Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary) Organic Fibres Detected
ACM	Flange Gasket	Tank Top - Engine Room - Aft Midship Sight Glass Stern Tube to Lube Oil Overflow	-	FD0656	0	-	-	-	-	-	Nil	Surveyed 2018
ACM	Flange Gasket	Tank Top - Engine Room - LD Aft Upper FWD Bearing Cover	-	FD0657	0	-	-	-	-	-	Nil	Surveyed 2018
ACM	Flange Gasket	Tank Top - Engine Room - Starboard Aft - Stern Tube Lube Oil Cooler - End Cover	-	FD0658	0	-	-	-	-	-	Nil	Surveyed 2018
Tank Top												
ACM	Flange Gasket	Tank Top - Engine Room - Port Condenser Upper Float Transmitter to Flange	3	FD0659	P1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Loose Gland Packing	Tank Top - Engine Room - Port Condenser Upper Float Transmitter to Flange	-	FD0660	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour
ACM	Bilge Suction Valve Flange	Tank Top - Engine Room - Port Aft - Bilge Pump	-	FD0752	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Tank Top - Engine Room - Port Aft - Bilge Pump	-	FD0753	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour with orange text
ACM	Flange Gasket	Tank Top - Engine Room - Port Aft - Below oily Water Separator Unit	-	FD0754	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour
ACM	Flange Gasket	Tank Top - Engine Room - Port Midship - Fire Pump Valve	-	FD0755	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Flange Gasket	Tank Top - Engine Room - Port Midship - Fire Pump Valve	-	FD0756	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour with orange text
ACM	Flange Gasket	Tank Top - Engine Room - Starboard Aft - Frame 517	4	FD0841	P1	0	1	1	0	3	A4	<p>Surveyed 2018. Blue in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.</p> <p>Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)</p> <p style="text-align: center;">Organic Fibres Detected</p>
Tank Top												
ACM	Cable Conduit Putty	Tank Top - Engine Room - Aft - JSTN Electrical Box	5	FD0842	1	0	1	1	1	4	A4	<p>Surveyed 2018. Grey in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.</p>
ACM	Flange Gasket	Tank Top - Engine Room - Port Aft - Oily Water Separator	-	FD0843	0	-	-	-	-	-	Nil	Surveyed Feb 2018 Beige in colour
ACM	Flange Gasket	Tank Top - Engine Room - Port Aft - Oily Water Separator	-	FD0844	0	-	-	-	-	-	Nil	Blue in colour
ACM	Flange Gasket	Tank Top - Engine Room - Port Aft - Engine Room Bilge Pump	-	FD0845	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Beige in colour
ACM	Flange Gasket	Tank Top - Engine Room - Port - Frame 504 - Dehumidifier Line	-	FD0846	0	-	-	-	-	-	Nil	Surveyed Feb 2018 Beige in colour
ACM	Flange Gasket	Tank Top - Engine Room - Port - Frame 503 - Valve	-	FD0847	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Beige in colour
Tank Top												
ACM	Flange Gasket	Tank Top - Engine Room - Port - VJH009 Valve	6	FD0848	P1	0	1	1	0	3	A4	<p>Surveyed 2018. Blue in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.</p> <p>Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)</p> <p style="text-align: center;">Organic Fibres Detected</p>
Lower Deck												
ACM	Gasket to C00LT Tank Pipe Work	Starboard Side Aft Steering Flat	-	V3018	0	-	-	-	-	-	Nil	Surveyed November 2012

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket to C00LT Tank Sight Glass	Starboard Side Aft Steering Flat	-	V3019	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to C00LT Tank Pipe Work	Starboard Side Aft Steering Flat	-	V3020	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Oil Discharge Pump Pipe Work	Starboard Side Aft Steering Flat	-	V3021	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Stern LO Pump pipe work	Starboard Side Aft Steering Flat	-	V3022	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to No 1 LO Puri Feed Pump Pipe Work	Starboard Side Aft Steering Flat	-	V3023	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to No 2 LO Puri Feed Pump pipe work	Starboard Side Aft Steering Flat	-	V3024	0	-	-	-	-	-	Nil	Surveyed November 2012
Lower Deck												
ACM	Gasket to Main LO Pump Pipe Work	Starboard Side Aft Steering Flat	-	V3025	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to FiFi Line Pipe Work	Starboard Side Aft Steering Flat	-	V3026	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to LO Filter pipe work	Starboard Side Aft Steering Flat	-	V3027	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Preformed Pipe Insulation to Steam Turbine	Starboard Side Lower D4	-	V3203	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Insulation to Stage Feed Water Heater Pipe Work	Port Side Lower D4	-	V3024	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to FO Sludge Tank Manhole	Starboard Side Lower D4	-	V3028	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to FO Sludge Tank Pipe Work	Starboard Side Lower D4	-	V3029	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Valve VDH041	Starboard Side Lower D4 Adjacent FO Tank	-	V3030	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Valve VPJ074	Starboard Lower D4 Adjacent FO Tank	-	V3031	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to AUX CCS CSW Pump Gate Valve	Starboard Lower D4	-	V3032	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to AUX CCS CSW Pump Discharge P/W	Starboard Lower D4	-	V3033	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to FO Over Filter Pipe Work	Starboard Lower D4	-	V3034	0	-	-	-	-	-	Nil	Surveyed November 2012
Lower Deck												
ACM	Gasket to FO Over pipe work	Starboard Side Tank Top D4	-	V3035	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Atmos Drain Tank	Starboard D4	-	V3036	0	-	-	-	-	-	Nil	Surveyed November 2012

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket to Atmos Drain Tank Pipe Work	Starboard D4	-	V3037	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Mid ship Tank Top D4	-	V3038	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Mid ship Tank Top D4	-	V3039	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Mid ship Tank Top D4	-	V3040	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Aux Circuit Pump Pipe Work	Mid ship Tank Top D4	-	V3041	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to No 1 Water Ballast Tank Gate Valve	Port Side Lower D4	-	V3042	1	1	2	0	0	4	A5	Surveyed November 2012
ACM	Gasket to No 1 Water Ballast Tank pipe work	Port Side Lower D4	-	V3043	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to No 3 Water Ballast Tank Pipe Work	Port Side Lower D4	-	V3044	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to ED Drive & W Spray Pump Suction	Port Side Lower D4	-	V3045	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to ED Drive & W Spray Pump Suction VPJ55	Port Side Lower D4	-	V3046	0	-	-	-	-	-	Nil	Surveyed November 2012
Lower Deck												
ACM	Gasket to No 3 Bilge Pipe Work	Port Side Lower D4	-	V3048	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to No 3 Bilge Pipe Work	Port Side Lower D4	-	V3049	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Fire Bilge and GS Pump	Port Side Lower D4	-	V3050	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to FiFi Line Pipe Work	Port Side Lower D4	-	V3051	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to FiFi Line pipe work	Port Side Lower D4	-	V3052	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Top of Separator Oil Bilge Tank	Port Side Lower D4	-	V3053	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to shut off valve separator oil bilge tank	Port Side Lower D4	-	V3054	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to aft bearing	Port Side Steering Flat	-	V3055	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Preformed Pipe Insulation to Steam Turbine	Port Side Steering Flat	-	V3203	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Insulation to Stage Feed Water Heater Pipe Work	Port Side Steering Flat	-	V3204	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Insulation Main Turbine Exhaust	Port Side Lower Engine Room	-	V3205	0	-	-	-	-	-	Nil	Surveyed November 2012

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Insulation to Engine Room Turbine Tank	Port Side Lower Engine Room	-	V3211	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Fire Line Pressuring Pump	Suction Line Lower Floor	-	CS0513	0	-	-	-	-	-	Nil	Surveyed November 2018
ACM	Gasket #3 to Ballast Pump	Lower Floor	-	CS0514	0	-	-	-	-	-	Nil	Surveyed November 2018
ACM	Gasket to OWS Test Line	OWS Test Line, Lower Floor	-	CS0515	0	-	-	-	-	-	Nil	Surveyed November 2019
4th Deck												
ACM	Gasket to feed Pump Inlet	4th Deck Port ANX	-	ZA22440	1	0	1	1	0	3	A4	Surveyed October 2023. Grey in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Gasket to Main CCS Southwest Pipe Outlet to Cooler	4th Deck Starboard Forward	-	ZA22417	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket to Port CCS Southwest outlet	4th Deck Starboard Forward	-	ZA22416	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket to Starboard cooler new adaptor	4th Deck Starboard Forward	-	ZA22415	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	BWTS - Inlet Port Filter SF100	4th Deck - Valve PV003F	-	ZA3144	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	BWTS - Port Filter SE100 - Mid Flange Joint	Mid Flange 4th Deck	-	ZA3145	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	BTWS - Outlet to Hydracyclonic - Liquid Flange	Liquid Flange 4th Deck	-	ZA3146	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	BTWS - REC Module J/b Underside Cables	4th Deck - Padding	-	ZA3147	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	BWTS - PVOZZF - Outlet	4th Deck - From Main	-	ZA3148	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	BTWS - Main Chest Steam Supect Insulation Piece	4th Deck - Piece	-	ZA3149	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	BTWS - Main Steam chest - Walkway padding debris	4th Deck	-	ZA3150	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	BTWS - CCS Cooler SW Valve Gasket	4th Deck	-	ZA3151	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	Hychlorinator SW Supply Pipe Flange at Valve - Grey fibrous gasket material	4th Deck	-	ZA3152	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	Hychlorinator SW Supply Pipe Flange at Valve - Black flaky layered material	4th Deck	-	ZA3153	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	Condenser Flash Chamber Inlet Side Flanges - Black flaky layered material	4th Deck	-	ZA3154	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	Condenser Flash Chamber Upper Steam Pipe Insulation - White loose powdery insulation material	4th Deck	-	ZA3155	0	-	-	-	-	-	Nil	Post Refit Survey August 2021

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Condenser Flash Chamber - Small platform beneath - Surface debris - Assorted debris	4th Deck	-	ZA3156	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	AUX Condenser Drain Valve - Blue painted green fibrous gasket material	4th Deck	-	ZA3157	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	Main CCS SW Pump Discharge Valve - RHS - Green fibrous gasket material	4th Deck	-	ZA3158	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	Main CCS SW Pump Discharge Valve - LHS - Beige fibrous gasket material	4th Deck	-	ZA3159	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	AUX CCS SW Pump Discharge Valve - Peach fibrous gasket material	4th Deck	-	ZA3160	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	Gasket to Distilled Water Line from Tank Flange	4th Deck	138	ZA9458	1	1	2	0	0	4	A4	Confirmation sample taken July 2022. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	TA LO Priming Pump inlet/Outlet Flange - Green fibrous gasket material	4th Deck	-	ZA3162	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	Boiler FO Flow Meter Drain Lines Lagging - Green vitreous fibrous insulation material	4th Deck	-	ZA3163	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	Boiler Atomizing Steam Line Drain Lagging - Green vitreous fibrous insulation material	4th Deck	-	ZA3164	0	-	-	-	-	-	Nil	Post Refit Survey August 2021
ACM	IGG Cooler - Liquid Receiver Gauge Glass Gasket - Green fibrous gasket material	4th Deck	-	ZA3165	0	-	-	-	-	-	Nil	Post Refit Survey August 2021

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Inspection Cover Gasket	4th Deck - Engine Room - LP Turbine Inspection Cover	-	FD0661	0	-	-	-	-	-	Nil	Surveyed 2018
ACM	Flange Gasket	4th Deck - Engine Room - GS Air Receiver Safety Valve	-	FD0662	0	-	-	-	-	-	Nil	Surveyed 2018
ACM	Flange Gasket	4th Deck - Engine Room - Portside FWD Deluge Flange	7	FD0663	P1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary) Organic Fibres Detected
ACM	Flange Gasket	4th Deck - ER Port FWD - Control Air No1	8	FD0732	1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Oily Residue on flange outer	4th Deck - ER Port FWD - Control Air No2	9	FD0733	1	0	1	1	0	3	A4	Surveyed 2018. Residue contains gasket. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Flange Gasket	4th Deck - ER Port FWD - GS Air No1	-	FD0734	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Flange Gasket	4th Deck - ER Port FWD - No1 Control Air Dryer	-	FD0735	0	-	-	-	-	-	Nil	Cream in colour
4th Deck												
ACM	Flange Gasket	4th Deck - ER Port FWD - Control Air No1 Outlet Flange	10	FD0736	1	0	1	1	0	3	A4	Brown in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Flange Gasket	4th Deck - ER Port FWD - Control Air No2 Outlet Flange	11	FD0737	1	0	1	1	0	3	A4	Surveyed 2018. Brown in colour
ACM	Flange Gasket	4th Deck - ER Port FWD - Redundant Air Dryer lines	-	FD0739	0	-	-	-	-	-	Nil	Surveyed 2018. Black in colour with green text
ACM	Flange Gasket	4th Deck - ER Port FWD -Hychlorinator Antifouling system	-	FD0740	0	-	-	-	-	-	Nil	Surveyed 2018. Black in colour
ACM	Sea Chest Line Flange Gasket	4th Deck - ER Port FWD -Hychlorinator Antifouling system	-	FD0741	0	-	-	-	-	-	Nil	Surveyed 2018. Black in colour
ACM	Intake Valve Flange Gasket	4th Deck - ER FWD -No.2 Main CCS. Cool	12	FD0742	P1	0	1	1	0	3	A4	Surveyed 2018. Blue in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary) Organic Fibres Detected
ACM	Cable Conduit Putty	4th Deck - ER FWD -Fresh Water Generator		FD0743	0	-	-	-	-	-	Nil	Surveyed 2018. Grey in colour

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
4th Deck												
ACM	Flange Gasket	4th Deck - ER Port FWD -Aux Feed Water Pump	13	FD0744	1	0	1	1	0	3	A4	Surveyed 2018. Brown in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Flange Gasket	4th Deck - ER Port FWD -No.1 Feed Water Pump	-	FD0745	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Flange Gasket	4th Deck - ER Port FWD -No.2 Feed Water Pump	-	FD0746	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Float Switch Flange gasket	4th Deck - ER Port - Bilge Primary Tank	-	FD0747	0	-	-	-	-	-	Nil	Surveyed 2018. Brown in colour
ACM	Flange Gasket	4th Deck - ER Port - Bilge Primary Tank	-	FD0748	0	-	-	-	-	-	Nil	Surveyed 2018. Cream in colour
ACM	Inlet Flange Gasket	4th Deck - ER Starboard FWD - Defiler	14	FD0749	P1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary) Organic Fibres Detected
ACM	Flange Gasket	4th Deck - ER Port FWD - No.2 Main Cond Vac Pump	-	FD0750	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Insulation Material at Ships Frame	4th Deck - ER Starboard - Steam Chest	-	FD0751	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour
4th Deck												
ACM	Flange Gasket	4th Deck - ER Port FWD - Grease Extractor	-	FD0757	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Flange Gasket	4th Deck - ER Port - No.1 Feed Water Pump	-	FD0758	0	-	-	-	-	-	Nil	Surveyed 2018. Green in colour
ACM	Flange Gasket	4th Deck - ER Port FWD - Freshwater Generator	-	FD0759	0	-	-	-	-	-	Nil	Surveyed 2018. Blue/Green in colour
ACM	Flange Gasket	4th Deck - ER FWD - Safety Relief Valve Adjacent Fresh water Generator	15	FD0760	1	0	1	1	0	3	A4	Surveyed 2018. Cream in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Flange Gasket	4th Deck - ER FWD - Pipe Work FWD of Fire Hose 75	-	FD0761	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Flange Gasket	4th Deck - ER Starboard FWD - Purifying Rm - No.1 L.O Purifier	16	FD0762	1	0	1	1	0	3	A4	Surveyed 2018. White in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Flange Gasket	4th Deck - ER Starboard FWD - Purifying Rm - No.2 L.O Purifier	-	FD0763	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	4th Deck - ER Starboard FWD - Purifying Rm - No.2 L.O Purifier	-	FD0764	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour with Red coating
ACM	Cable Conduit Putty	4th Deck - ER Starboard FWD - Purifying Rm - D.O Purifier	17	FD0765	1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
4th Deck												
ACM	Gasket	4th Deck - ER Port FWD - Aux Feed Pump	18	Previously sampled V3060	1	0	1	1	0	3	A4	Surveyed 2012. No Condition Change. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Flange Gasket	4th Deck - Lower - ER FWD - No 1 Ballast Tank	19	Previously sampled V3041	1	0	1	1	0	3	A4	Surveyed 2012. No Condition Change. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Valve Flange Gasket	4th Deck -Engine Room -Port FWD - Fire Bilge GS Pump	-	FD0834	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Flange Gasket	4th Deck - Engine Room - Port FWD - Bilge & GS Pump	-	FD0835	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Gasket Debris on Loose Pipe	4th Deck - Engine Room - Port FWD - Adjacent to Bilge & GS Pump	-	FD0836	0	-	-	-	-	-	Nil	Surveyed 2018. Brown in colour - Bagged for disposal
ACM	Flange Gasket	4th Deck - Engine Room - Port FWD - Fire Line Pressure Pump	-	FD0837	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Flange Gasket	4th Deck - Engine Room - Port FWD - VDJO53	-	FD0838	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour with white core
ACM	Flange Gasket	4th Deck - Engine Room - Port FWD - Fire Bilge GS Pump	-	FD0839	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour with white core
ACM	Pipe Joint Cover Flange Gasket	4th Deck - Engine Room - Port FWD - No 2 Ballasts Pump	20	FD0840	1	0	1	1	0	3	A4	Surveyed 2018. Beige in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Insulation Material	4th Deck - Engine Room - Starboard FWD - Adjacent Wash Bay	-	FD0849	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour
ACM	Flange Gasket	4th Deck - Engine Room - Port FWD -GS Air	-	FD0850	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Flange Gasket	4th Deck - Engine Room - Port FWD - No 1 Control Air Dryer	-	FD0851	0	-	-	-	-	-	Nil	Surveyed 2018. Blue/green in colour
4th Deck												
ACM	Flange Cover Gasket	4th Deck - Engine Room - Port FWD - No 1 Control Air Dryer	-	FD0852	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Gasket to Float Switch Gov Impellor Head Tank P/W	Mid Ship Engine Room	-	V3057	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Float Switch Gov Impellor Head Tank	Mid Ship Engine Room	-	V3058	0	0	0	0	0	0	Nil	Surveyed November 2012

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Insulation to No 2 FWD WPP Running Pipe Work	Mid Ship Engine Room	-	V3059	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Aux Feed Water Pump Pipe Work	Mid Ship Engine Room	18	V3060	1	1	2	0	0	4	A4	Surveyed November 2012. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Gasket to Lube Oil Tank Sep Bilge Line P/W	Mid Ship Engine Room	-	V3061	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fuel Oil Tank Manhole	Mid Ship Engine Room	-	V3062	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to anti fouling system pipe work	Mid Ship Engine Room	-	V3063	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to anti fouling system gate valve	Mid Ship Engine Room	-	V3064	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to FiFi Pipe Work	Mid Ship Engine Room	-	V3065	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to No 5 Main Cooling Water	Mid Ship Engine Room	-	V3066	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to No 5 Main Cooling Water Pipe Work	Mid Ship Engine Room	-	V3067	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fresh Water out Pipe work	Starboard Side Engine Room	-	V3068	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fresh Water Out Pipe Work	Starboard Side Engine Room	-	V3069	0	0	0	0	0	0	Nil	Surveyed November 2012
4th Deck												
ACM	Gasket to Diesel Oil Purifier Outlet Valve P/W	Starboard Side Purifier Room	-	V3071	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fuel Oil Separator P/W	Starboard Side Purifier Room	-	V3072	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fuel Oil Separator P/W	Starboard Side Purifier Room	-	V3073	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fuel Oil Tank	Starboard Side Purifier Room	-	V3074	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to No 1 Fuel Oil Burn Pump	Starboard Side Purifier Room	-	V3075	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Oil Discharge Pump pipe work	Starboard Side Engine Room	-	V3076	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Oil Bypass Separator	Starboard Side Engine Room	-	V3077	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Drain Inspection Tank Sight Glass	Starboard Side Engine Room	-	V3078	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Aft Peak Tank Pipe Work	Aft Peak Engine Room	-	V3079	0	0	0	0	0	0	Nil	Surveyed November 2012

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket to No 2 Fresh Water Tank Float Switch	Starboard Side Engine Room	-	V3080	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Sewage Treatment Tank Pipe Work	Starboard Side Engine Room	-	V3081	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Sewage Treatment Tank Blank Plate	Starboard Side Engine Room	-	V3082	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Redundant Valve	Starboard Storage Space Engine Room	-	V3083	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Redundant Valve	Starboard Storage Space Engine Room	-	V3084	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket debris to spare pipe flange	Starboard Storage Space Engine Room	-	V3085	0	0	0	0	0	0	Nil	Surveyed November 2012
4th Deck												
ACM	Gasket to Redundant Valve	Starboard Storage Space Engine Room	-	V3086	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Lube Oil Head Tank Sight Glass	Starboard Side Engine Room	-	V3087	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fire Discharge Tank Pipe Work	Starboard Side Engine Room	-	V3088	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fire Discharge Tank Manhole	Starboard Side Engine Room	-	V3089	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Float Switch Fresh Water Tank	Port Side Engine Room	-	V3090	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Water mist System Pipe Work	Port Side Engine Room	-	V3091	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Diesel Generator Pipe work	Port Side Diesel Generator Room	-	V3092	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Diesel Generator Pipe Work	Port Side Diesel Generator Room	-	V3093	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Diesel Generator turbine Pipe work	Port Side Diesel Generator Room	-	V3094	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Generator Turbine Pipe Work	Port Side Engine Room	-	V3095	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Lube Oil Cooler Pipe Work	Port Side Engine Room	-	V3096	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to No 2 Diesel Generator Pipe Work	Starboard side Diesel Generator Room	-	V3097	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Comp Oil Tank Head Tank	Starboard Side Engine Room	-	V3098	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Clean Oil Tank	Starboard Side Engine Room	-	V3099	0	0	0	0	0	0	Nil	Surveyed November 2012
4th Deck												

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket to Inert Gas Generator Gate Valve	Starboard Side Inert Gas Gen Room	-	V3113	1	1	2	0	0	4	A4	Surveyed November 2012. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Gasket to Fuel Line	Purifying Room, Fuel Line HFO STB	-	CS0510	0	0	0	0	0	0	Nil	Surveyed November 2018. Blue/white coated gasket
ACM	Gasket #2 Control Air Compressor Flange	Control Air Compressor	-	CS0511	0	0	0	0	0	0	Nil	Surveyed November 2018. Blue/white coated gasket
ACM	Gasket #1 GS Air Compressor	Control Air Compressor	-	CS0512	0	0	0	0	0	0	Nil	Surveyed November 2018. Blue/white coated gasket
ACM	Fibrous Gasket Material	4th Deck - Aux feed pump suction	139	ZA9475	1	1	2	0	0	4	A3	Surveyed July 2022. Manage and plan for removal. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
3rd Deck												
ACM	Gasket New IGG Southwest vent pipe	IGG Room	-	ZA22414	0	0	0	0	0	0	Nil	Surveyed October 2023
ACM	New cables penetration packing (floor) - White painted beige hardened mastic material	Upper Deck BA Compressor Room	-	ZA3167	0	0	0	0	0	0	Nil	Post Refit Survey August 2021
ACM	Powdery Plaster with Organic Backing	ER Workshop - Wall panelling	-	ZA3177	0	0	0	0	0	0	Nil	Post Refit Survey August 2021
ACM	Blue Fibrous Gasket Materials	ER Workshop - Stored Gaskets (6500)	-	ZA3178	0	0	0	0	0	0	Nil	Post Refit Survey August 2021
ACM	Blue Fibrous Gasket Materials	ER Workshop - Stored Gasket 3Start 6010	-	ZA3179	0	0	0	0	0	0	Nil	Post Refit Survey August 2021
ACM	James Walker 8mm Packing	3rd Deck - ER Workshop - Gasket Bench	-	FD0603	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour
ACM	Flexitallic 26l Packing	3rd Deck - ER Workshop - Gasket Bench	-	FD0604	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour
ACM	James Walker 12.5mm Packing	3rd Deck - ER Workshop - Gasket Bench	-	FD0605	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour
ACM	James Walker Supeta packing No 346	3rd Deck - ER Workshop - Gasket Bench	21	FD0606	4	0	2	4	4	5	A2	Surveyed 2018. Brown in colour - Removed by PCB WA February 2018
ACM	Beldam Crossly Pilot 160 Sheet gasket	3rd Deck - ER Workshop - Gasket Bench Joining Drawer	22	Previously Sampled V3209	4	0	4	2	2	6	A2	Surveyed 2018. Beldam Crossly Pilot 160- Removed by PCB WA February 2018
ACM	Valqua 1500 sheet gasket	3rd Deck - ER Workshop - Gasket Bench Joining Drawer	23	FD0607	4	0	4	2	2	6	A2	Surveyed 2018. Black in colour with green text - Valqua 1500. Removed by PCB WA February 2018
ACM	Valqua 1542 Ring Gasket	3rd Deck - ER Workshop - Gasket Bench Joining Drawer	24	FD0608	4	0	2	4	4	5	A2	Black in colour with green text - Valqua 1542. Removed by PCB WA February 2018
ACM	Gasket Debris within Drawer	3rd Deck - ER Workshop - Gasket Bench Small Joining Drawer	25	FD0609	4	0	4	3	3	8	A2	Surveyed 2018. Cleaned by PCB WA February 2018
ACM	Small Loose Gasket	3rd Deck - ER Workshop - Gasket Bench Small Joining Drawer	-	FD0610	0	-	-	-	-	-	Nil	Surveyed 2018. Black in Colour - Unknown make. Removed by PCB WA February 2018

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Small Ring Gaskets	3rd Deck - ER Workshop - Gasket Bench Small Joining Drawer	-	FD0611	0	-	-	-	-	-	Nil	Surveyed 2018. Pillar Clean Sheet 5610 - Removed by PCB WA February 2018
ACM	Jeil 3 Star 5069 Ring Gasket	3rd Deck - ER Workshop - Gasket Bench Small Joining Drawer	26	FD0612	4	0	4	4	0	3	A4	Surveyed 2018. Jeil 3 Star 5069 branded - Removed by PCB WA February 2018
3rd Deck												
ACM	Lagging/Insulation	3rd Deck, AFT IMPA Steam Trap Drain	-	ZA22447	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Tracing Heating Insulation	3rd Deck - ER Workshop - Starboard Settling Tank Trace Heating Insulation	-	ZA22439	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Mastic/Cable Putty	3rd Deck - ER Workshop Milling Machine cable penetrations	-	ZA22438	1	0	1	1	1	4	A4	Surveyed October 2023. Grey in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Ventilation Fan Walkway, Insulation Packing	3rd Deck, Walkway adjacent to incinerator, Insulation Debris	-	ZA22434	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Ventilation Fan Walkway, Plaster Material	3rd Deck - Port Boiler Super Heater, Manual Vent	-	ZA22433	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Small Valqua Ring Gasket	3rd Deck - ER Workshop - Gasket Bench Small Joining Drawer	-	FD0613	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour with orange text - Bagged for disposal
ACM	Beldam Branded Ring Gasket	3rd Deck - ER Workshop - Gasket Bench Small Joining Drawer	-	FD0614	0	-	-	-	-	-	Nil	Surveyed 2018. Orange in colour - Beldam Branded - Bagged for disposal
ACM	ADS Loose Gasket Material	3rd Deck - ER Workshop - Gasket Bench Small Joining Drawer	27	Previously Sampled V3210	4	0	4	2	2	6	A2	Surveyed 2012. Removed
ACM	Pillar Techograph No 5650 Sheet Gasket	3rd Deck - ER Workshop - Gasket Bench Joining Drawer	-	FD0615	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour - Pillar Techograph No 5650 Sheet Gasket
ACM	Jeil 3 Start 6000w Ring Gaskets	3rd Deck - ER Workshop - Starboard Bulkhead	-	FD0616	0	-	-	-	-	-	Nil	Surveyed 2018. Blue/green in colour - Jeil 3 Start 6000w branded
ACM	Remnant gasket material on small flange covers	3rd Deck - ER Workshop - port side welders bay	-	FD0617	0	-	-	-	-	-	Nil	Surveyed 2018. Tombo branded
ACM	Remnant gasket material on small flange cover	3rd Deck - ER Workshop - port side welders bay	28	FD0618	4	0	4	2	4	5	A4	Surveyed 2018. Removed by PCB Holdings March 2018
ACM	Arc Welder Connection Box Cable Putty (although found throughout workshop)	3rd Deck - ER Workshop - port side welders bay	29	ZA22437	1	0	1	1	1	4	A4	Surveyed 2023. Grey in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Deck Head Cable Penetration Putty from Control Box Adjacent to Lathe	3rd Deck - ER Workshop - Starboard adjacent to lathe	30	FD0620	1	0	1	1	1	4	A4	Surveyed 2018. Grey in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Cable Penetration Putty in Manufacturer Package	3rd Deck - ER Workshop - electrical store	-	FD0621	0	-	-	-	-	-	Nil	Surveyed 2018. Grey in colour - Pla brand B-CX

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	White Unbranded Gland Packing	3rd Deck - ER Workshop - Gasket Bench	31	FD0651	4	2	2	4	4	7	A2	Surveyed 2018. Removed by PCB Holdings March 2018
3rd Deck												
ACM	Lift Braking Lining	3rd Deck - ER Lift Motor Room	32	FD0664	1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Lube Oil filter Outer Flange Gasket	3rd Deck - ER Generator No1	-	FD0665	0	-	-	-	-	-	Nil	Surveyed 2018. Generator 2 will be similar
ACM	Sight Glass Gasket	3rd Deck - ER Port L.O Grav Tank Sight Glass	33	FD0677	P1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Gasket Between Sections	3rd Deck - ER Port L.O Grav Tank Sight Glass	34	FD0678	1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
3rd Deck												
ACM	Gasket to Fire Water Pipe Flange	3rd Deck - ER Port - Adjacent Fire Hose 73	35	FD0679	P1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary) Organic Fibres Detected
ACM	Insulation material	3rd Deck - IGG - Electrical heaters	-	FD0680	0	-	-	-	-	-	Nil	Surveyed 2018. White
ACM	Loose Sight Gasket	3rd Deck - ER Workshop - Gasket Bench	-	FD0681	0	-	-	-	-	-	Nil	Surveyed 2018. Green in colour - Bagged for disposal
ACM	James Walker No 319 5mm Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0682	0	-	-	-	-	-	Nil	Surveyed 2018. Black in colour
ACM	James Walker No 319 12mm Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0683	0	-	-	-	-	-	Nil	Surveyed 2018. Black in colour
ACM	James Walker PTFE Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0684	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour
ACM	Garlock 1/2in Woven Packing material	3rd Deck - ER Workshop - Gasket Bench	-	FD0685	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Loose Graphite Coating Packing Material Debris on Floor	3rd Deck - ER Workshop - Gasket Bench	36	FD0686	4	2	2	4	4	7	A2	Surveyed 2018. Black with white internal core. Removed by PCB Holdings 2018
ACM	Pillar #315-5mm Packing Material	3rd Deck - ER Workshop - Gasket Bench	37	FD0687	4	2	2	4	4	7	A2	Black with white internal core. Removed by PCB Holdings 2018

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Garlock Teflon 3mm Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0688	0	-	-	-	-	-	Nil	Surveyed 2018.White in colour
ACM	James Walker 312BG 12.5mm Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0689	0	-	-	-	-	-	Nil	Surveyed 2018.
3rd Deck												
ACM	Gasket	Black Sheet, ER workshop - Gasket bench	-	ZA22432	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Dark Blue Sheet, ER workshop - Gasket bench	-	ZA22431	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Red/White Sheet, ER workshop - Gasket bench	-	ZA22430	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Yellow Sheet, ER workshop - Gasket bench	-	ZA22429	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Light Blue Sheet, ER workshop - Gasket bench	-	ZA22428	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	White Sheet, ER workshop - Gasket bench	-	ZA22427	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	Blue/Green Sheet, ER workshop - Gasket bench	-	ZA22426	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Loose White Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0690	0	-	-	-	-	-	Nil	Surveyed 2018.White in colour
ACM	James Walker PTFE LL No 464L Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	Same As FD0684	0	-	-	-	-	-	Nil	Surveyed 2018.White in colour
ACM	James Walker PTFE Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0691	0	-	-	-	-	-	Nil	Surveyed 2018.White in colour
ACM	James Walkers Roflon No 140F Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0692	0	-	-	-	-	-	Nil	Surveyed 2018.White in colour
ACM	Pillar #4507L Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0693	0	-	-	-	-	-	Nil	Surveyed 2018.Black in colour
ACM	James Walker Fluosan Packing Material 8mm	3rd Deck - ER Workshop - Gasket Bench	-	FD0694	0	-	-	-	-	-	Nil	Surveyed 2018.White in colour
ACM	James Walker Grafpak 3mm Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0695	0	-	-	-	-	-	Nil	Surveyed 2018.Black in colour
ACM	Pillar #426F Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0696	0	-	-	-	-	-	Nil	Surveyed 2018.White in colour
ACM	James Walker Grafpak 5mm Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0697	0	-	-	-	-	-	Nil	Surveyed 2018.Black in colour

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Garlock Style PM2 3mm Packing Material	3rd Deck - ER Workshop - Gasket Bench	-	FD0698	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Gasket Debris on Floor	3rd Deck - ER Workshop - Gasket Bench	-	No Sample		-	-	-	-	-		Surveyed 2018.Removed by PCB Holdings March 2018
ACM	Gasket to Loose Valve Flange	3rd Deck - ER Workshop - Mezzanine Starboard Shelving	-	FD0699	0	-	-	-	-	-	Nil	Surveyed 2018.Blue in colour
ACM	Remnant Gasket on Loose Valve Flange	3rd Deck - ER Workshop - Mezzanine Starboard Shelving	38	FD0700	P4	0	4	4	0	3	A4	Surveyed 2018. Removed by PCB Holdings March 2018
ACM	Remnant Gasket on Loose Valve Flange	3rd Deck - ER Workshop - Mezzanine Starboard Shelving	39	FD0701	P4	0	4	4	0	3	A4	Surveyed 2018.Removed by PCB Holdings March 2018
3rd Deck												
ACM	Remnant Gasket on Loose Valve Flange	3rd Deck - ER Workshop - Mezzanine Starboard Shelving		FD0702	0	-	-	-	-	-	Nil	Surveyed 2018.Yellow in colour
ACM	Remnant Gasket on Loose Valve Flange	3rd Deck - ER Workshop - Mezzanine Starboard Shelving	40	FD0703	P4	0	4	4	0	3	A4	Surveyed 2018.Removed by PCB Holdings March 2018
ACM	Remnant Gasket on Loose Valve Flange (Atlas Copco Filter housing)	3rd Deck - ER Workshop - Mezzanine Starboard Shelving	41	FD0704	4	0	4	4	0	3	A2	Surveyed 2018.Grey in colour. Removed by PCB Holdings.
ACM	Remnant Gasket on Loose Valve Flange (Atlas Copco Filter housing)	3rd Deck - ER Workshop - Mezzanine Starboard Shelving	-	FD0705	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Remnant Gasket on Loose Valve Flange (Atlas Copco Filter housing)	3rd Deck - ER Workshop - Mezzanine Starboard Shelving	-	Same As FD0705	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Tombo Branded Rockwool	3rd Deck - ER Workshop - Mezzanine Starboard Shelving	-	FD0706	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Flange Gasket	3rd Deck - Steering Flat - Aft Winch Tank	-	FD0707	0	-	-	-	-	-	Nil	Surveyed 2018. Cream in colour - Friable on condition
ACM	Port Side Sight Glass Gasket (3rd from bottom)	3rd Deck - Steering Flat - Aft Winch Tank	-	FD0708	0	-	-	-	-	-	Nil	Surveyed 2018. Green in colour
ACM	Rear Access Hatch No2 Gasket	3rd Deck - Steering Flat - Aft Winch Tank	42	FD0709	1	0	1	1	0	3	A4	Surveyed 2018.Grey in colour
	Sight Glass Gasket	3rd Deck - Steering Flat - Steering Gear Port Side Hydraulic Tank	43	FD0710	1	0	1	1	0	3	A4	Surveyed 2018. White in colour - Friable on condition
ACM	End Cover Gasket	3rd Deck - Diesel Generator No2 Room - Lube Oil Cover / End Cover	44	FD0711	1	0	1	1	0	3	A4	Surveyed 2018. Green in colour
3rd Deck												
ACM	Flange Gasket Adjacent to Lube Oil Pump	3rd Deck - Diesel Generator No2 Room - Lube Oil Cover / End Cover	45	FD0712	P1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Mounting Gasket	3rd Deck - Diesel Generator No2 Room - Starboard Governor Mount Flange	-	FD0713	0	-	-	-	-	-	Nil	Surveyed 2018. Blue

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	3rd Deck - Diesel Generator No2 Room - Aft Port Side Pipe flange	46	FD0714	P1	0	1	1	0	3	A4	Surveyed 2018. Blue with orange text - Valqua. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Flange Gasket	3rd Deck - Generator Turbine - Port Side Pump Flange	-	FD0715	0	-	-	-	-	-	Nil	
ACM	Sight Glass Flange Gasket	3rd Deck - Generator Turbine - Sight Glass Flange	-	FD0716	0	-	-	-	-	-	Nil	
ACM	Flange Gasket	3rd Deck - Generator Turbine - Port Side Oil Line	-	FD0717	0	-	-	-	-	-	Nil	Green in colour
ACM	Flange Gasket	3rd Deck - Diesel Generator No1 Rm - Lube Oil Pump Discharge Outlet	-	FD0718	0	-	-	-	-	-	Nil	Green in colour
3rd Deck												
ACM	Sight Glass Flange Gasket	3rd Deck - ER Starboard Adjacent to Workshop - L.O Daily Tank	47	FD0719	1	0	1	1	0	3	A4	Surveyed 2018. Black in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Sight Glass Gasket	3rd Deck - ER Starboard Adjacent to Workshop - Clean Out Tank	-	FD0720	0	-	-	-	-	-	Nil	Surveyed 2018. Green in colour
ACM	Top Lid Insulation	3rd Deck - IGG Electric heater / Steam Heater	-	FD0721	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Access Panel Door Seal (woven)	3rd Deck - Starboard Boiler No1 - FWD access panel	-	FD0722	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Pipe Insulation	3rd Deck - Starboard Boiler No1 - FWD	-	FD0723	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Access Panel Door Seal (woven)	3rd Deck - Starboard Boiler No1 - Starboard access panel	-	FD0724	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Remnant Gasket on Loose Valve Flange	3rd Deck - Starboard Ships Frame Adjacent to Sewerage Treatment Unit	48	FD0725	4	2	2	4	4	7	A2	Surveyed 2018. Black in colour - Removed by PCB WA March 2018
ACM	Remnant Gasket on Loose Valve Flange	3rd Deck - Starboard Ships Frame Adjacent to Sewerage Treatment Unit	49	FD0726	4	2	2	4	4	7	A2	Surveyed 2018. White in colour - Removed by PCB WA March 2018
ACM	Remnant Gasket on Loose Valve Flange	3rd Deck - Starboard Ships Frame Adjacent to Sewerage Treatment Unit	50	FD0727	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour with orange Text - Removed by PCB WA March 2018
ACM	Remnant Gasket on Loose Valve Flange	3rd Deck - Starboard Ships Frame Adjacent to Sewerage Treatment Unit	51	FD0728	4	2	2	4	4	7	A2	Surveyed 2018. Green in colour - Removed by PCB WA March 2018
ACM	Gasket Debris on Shelf	3rd Deck - Starboard Ships Frame Adjacent to Sewerage Treatment Unit	52	FD0729	4	2	2	4	4	7	A2	Surveyed 2018. Removed by PCB WA March 2018
ACM	Gasket	3rd Deck - Starboard Tank Access Panel		FD0730	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
3rd Deck												
ACM	Fire Water Line Flange Gasket	3rd Deck - ER Adjacent Workshop - Fire pump Hose 74	53	FD0731	P1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Flange Gasket	3rd Deck - ER Starboard Adjacent to Diesel Generator Rm Zone 1 Aqua mist Spray System Release Station	54	FD0766	P1	0	1	1	0	3	A4	Surveyed 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Gasket to Diesel Generator Zone 6 Flange	3rd Deck - ER Port - Water mist System	-	FD0767	0	-	-	-	-	-	Nil	Surveyed 2018. White in colour
ACM	Gasket to Zone 1 Flange	3rd Deck - ER Port - Water mist System	-	FD0768	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	Outlet Gasket	3rd Deck - IGG Port Aft - Compressor No.2	-	FD0769	0	-	-	-	-	-	Nil	Surveyed 2018. Cream in colour
ACM	Outlet Gasket	3rd Deck - IGG Port Aft - Compressor No.1	-	FD0770	0	-	-	-	-	-	Nil	Blue in colour
ACM	Gasket Debris	3rd Deck - Engine Room - Workshop - Gasket Bench	55	FD0811	4	2	2	4	4	7	A2	Black with Green text - Valqua 542 - Removed by PCB WA March 2018
ACM	Sheet Gasket	3rd Deck - Engine Room - Workshop - Starboard aft - Small Fitting Rack	-	FD0812	0	-	-	-	-	-	Nil	Surveyed 2018. Black in colour - wire reinforced
3rd Deck												
ACM	Sheet gasket	3rd Deck - Engine Room - Workshop - Gasket Bench	-	FD0813	0	-	-	-	-	-	Nil	Surveyed 2018. Black in colour - Kautasit AF
ACM	Flange Gasket	3rd Deck - Engine Room - Workshop - Gasket Bench	-	FD0814	0	-	-	-	-	-	Nil	Surveyed 2018. Green in colour with pink text - Teadit
ACM	Flange Gasket	3rd Deck - Engine Room - Workshop - Gasket Bench	-	FD0815	0	-	-	-	-	-	Nil	Surveyed 2018. Beige in colour - James Walker Sentinel (old logo)
ACM	Flange Gasket	3rd Deck - Engine Room - Workshop - Gasket Bench	-	FD0816	0	-	-	-	-	-	Nil	Surveyed 2018. Green in colour - Klinger C-4401 SL
ACM	Flange Gasket	3rd Deck - Engine Room - Workshop - Gasket Bench	57	FD0817	4	0	4	2	2	6	A2	Surveyed 2018. Black / Grey in colour - Removed by PCB WA March 2018
ACM	Outlet Gasket	3rd Deck - Engine Room - Port - No1 FW Pump	-	FD0833	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	New Gasket Material	Starboard Side Engine Room Workshop	-	V3100	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Stored Gasket Material	Starboard Side Engine Room Workshop	-	V3102	0	-	-	-	-	-	Nil	Surveyed November 2012

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Stored Gasket Material	Starboard Side Engine Room Workshop	-	V3103	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Lube Oil A Pipe Work	Starboard Side Engine Room	-	V3104	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Aux Lube Oil Purifier Tank Manhole	Starboard Side Engine Room	-	V3105	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Aux Lube Oil Purifier Tank Pipe Work	Starboard Side Engine Room	-	V3106	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Lube Oil Renovating Tank Pipe Work	Starboard Side Engine Room	-	V3107	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Lube Oil Renovating Tank Man Hole	Starboard Side Engine Room	-	V3108	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Incinerator Tank Pipe Work	Starboard Side Engine Room	-	V3109	0	-	-	-	-	-	Nil	Surveyed November 2012
3rd Deck												
ACM	Gasket to Do Service Tank Sight Glass	Starboard Engine Room	-	V3110	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Gen LO Renovation Tank Sight Glass	Starboard Side Engine Room	-	V3111	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Gen LO RenTank Pipe Work	Starboard Side Engine Room	-	V3112	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Spare Gasket Material Garlock Blu Guard 0.4mm	Starboard Store Room	-	V3206	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Beldam Spare Gasket Material 1.5mm	Starboard Store Room	-	V3207	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Spare Gasket Material Garlock Blu Guard 0.4mm	Starboard Store Room	-	V3208	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Flange	Turbo alternator blue bit supply	140	ZA9474	1	1	2	0	1	5	A3	Surveyed July 2022. Manage and plan for removal. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance
ACM	Woven insulation to incinerator pipework	Turbo alternator gland steam	-	ZA9473	0	-	-	-	-	-	Nil	Surveyed July 2022
ACM	Gasket to Flange	Turbo alternator gland steam	-	ZA9472	0	-	-	-	-	-	Nil	Surveyed July 2023
2nd Deck												
ACM	Gasket	2PA, No.2 Calorifier Steam Inlet	-	ZA22448	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Lagging/Insulation	2PA, No.2 Calorifier Steam Inlet	-	ZA22449	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Gasket	2PA, No.1 Calorifier Pump Outlet	-	ZA22450	0	-	-	-	-	-	Nil	Surveyed October 2023

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket	2nd Deck, Water for FO return Cooler	-	ZA22451	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Putty/Cement Material	2nd Deck, AC Flat, Main AC Control Panel Penetrations	-	ZA22452	0	-	-	-	-	-	Nil	Surveyed October 2023

ACM	White loose fibrous matted material	Drawer BG6 - Stored woven joints	-	ZA3174	0	-	-	-	-	-	Nil	Surveyed 2021
ACM	No 1 Diesel Generator Fuel Filter Gasket - 350.10.01.g	2th Deck 2SA - AA2 Drawer	-	FD0505	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	No 1 Diesel Generator Gasket E329070140z - 350.10.01.G50	2th Deck 2SA - AA2 Drawer	58	FD0504	P1	0	1	1	0	3	A2	Items not identified during Post Refit August 2021 Survey. Presumed removed.
2nd Deck												
ACM	Main Generator Turbine Packing Gasket - 380.10.01.017	2nd Deck 2SA - AA2 Drawer	59	FD0503	4	0	2	0	4	4	A2	Surveyed 2018. Removed by PCB Holdings March 2018
ACM	Main Generator Turbine Packing Gasket - 350.10.01.043	2nd Deck 2SA - AA3 Drawer	-	FD0501	0	-	-	-	-	-	Nil	Surveyed 2018. Valqua Branded
ACM	Main Generator Turbine Packing Gasket - 350.10.01.043	2nd Deck 2SA - AA3 Drawer	-	FD0502	0	-	-	-	-	-	Nil	Surveyed 2018. Valqua TWV5
ACM	No 1 Diesel Generator Gasket E322170200z - 350.10.01.071	2nd Deck 2SA - Ab5 Drawer	-	FD0506	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	No 1 Diesel Generator Gasket E322170230z - 350.10.01.GE5	2nd Deck 2SA - Ab5 Drawer	-	FD0507	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	No 1 Diesel Generator Gasket Side Cover E320370100B - 350.10.02.G63	2nd Deck 2SA - Ab6 Drawer	60	FD0508	P4	0	4	4	0	3	A2	Surveyed 2018. Green Coloured. Removed by PCB WA March 2018
ACM	No 1 Diesel Generator Gasket Side Cover E320370100B - 350.10.02.G63	2nd Deck 2SA - Ab6 Drawer	-	FD0509	0	-	-	-	-	-	Nil	Surveyed 2018. Cork Coloured
2nd Deck												
ACM	Man Hole Gasket - 06.61.64.00-01	2nd Deck 2SA - AH6 Drawer	61	FD0510	P4	0	4	4	0	3	A2	Surveyed 2018. Pillar Clean Sheet No 5611. Removed by PCB WA March 2018
ACM	No 1 Diesel Generator Gasket - 350-10.01.GP4	2nd Deck 2SA - AB3 Drawer	-	FD0511	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	No 1 Diesel Generator Gasket 22 - 350.10.01.GP3	2nd Deck 2SA - AB3 Drawer	-	FD0512	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	No 1 Diesel Generator Gasket Cover 10 - 350.10.01.GP5	2nd Deck 2SA - AB3 Drawer	-	FD0513	0	-	-	-	-	-	Nil	Surveyed 2018. Valqua
ACM	No 1 Diesel Generator Seal Kit F/GF200 Filter - 350.10.01.GD5	2nd Deck 2SA - AB3 Drawer	62	FD0514	4	0	2	0	4	4	A2	Surveyed 2018. Black Grey gasket - Removed by PCB WA March 2018
ACM	No 1 Diesel Generator Seal Kit F/GF200 Filter - 350.10.01.GD5	2nd Deck 2SA - AB3 Drawer	-	FD0515	0	-	-	-	-	-	Nil	Surveyed 2018. Novus Branded Orange gasket

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	No 1 Diesel Generator Pump Body Gasket - 350.10.01.Q50	2nd Deck 2SA - AB3 Drawer	-	FD0516	0	-	-	-	-	-	Nil	Surveyed 2018. Tombo 1630
ACM	No 1 Diesel Generator Packing E326701440z - 350.10.01.073	2nd Deck 2SA - AB6 Drawer	63	FD0518	P4	0	4	4	0	3	A4	Surveyed 2018. Removed by PCB WA March 2018
ACM	No 1 Domestic Hot Water Gland Packing - 626.11.01.008	2nd Deck 2SA - AC5 Drawer	-	FD0517	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	No 1 Diesel Generator Exhaust Outlet Gasket - 350.10.01.065	2nd Deck 2SA - AC7 Drawer	-	FD0519	0	-	-	-	-	-	Nil	Surveyed 2018. Copper Gasket
ACM	No 1 Diesel Generator Exhaust Outlet Gasket VTR201 - 350.10.01.065	2nd Deck 2SA - AE4 Drawer	-	FD0520	0	-	-	-	-	-	Nil	Surveyed 2018. Copper Gasket
2nd Deck												
ACM	No 1 Diesel Generator Gasket - 350.10.01.066	2nd Deck 2SA - AE4 Drawer	-	FD0521	0	-	-	-	-	-	Nil	Surveyed 2018. Copper Gasket
ACM	Emergency Diesel Generator Intake Manifold gasket 352.01.01.068	2nd Deck 2SA - AE4 Drawer	-	FD0522	0	-	-	-	-	-	Nil	Surveyed 2018. Copper Gasket
ACM	Emergency Diesel Generator Intake Manifold gasket 352.01.01.069	2nd Deck 2SA - AF2 Drawer	-	FD0523	0	-	-	-	-	-	Nil	Surveyed 2018. Copper Gasket
ACM	No 1 Main Condenser Vac Pump Packing 444.11.01.005	2nd Deck 2SA - AE4 Drawer	-	FD0524	0	-	-	-	-	-	Nil	Surveyed 2018. White/cream coloured packing in cardboard roll Unbranded)
ACM	No 1 Main Condenser Vac Pump Packing 444.11.01.005	2nd Deck 2SA - AE4 Drawer	-	FD0525	0	-	-	-	-	-	Nil	Surveyed 2018. White/cream coloured packing - Latty Branded
ACM	No 1 Main Condenser Vac Pump cone Gasket 444.11.01.006	2nd Deck 2SA - AF2 Drawer	-	FD0526	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	No 1 Main Feed Water Pump and Turbine Gasket 450.11.01.G40	2nd Deck 2SA - AF3 Drawer	-	FD0527	0	-	-	-	-	-	Nil	Surveyed 2018. Spiral wound gasket
ACM	No 1 Main Feed Water Pump and Turbine Gasket D155 450.11.01.A17	2nd Deck 2SA - AF3 Drawer	-	FD0528	0	-	-	-	-	-	Nil	Surveyed 2018. Blue Gasket
ACM	No 1 Aux Control Sea Water Pump Packing - 401.31.01.005	2nd Deck 2SA - AF3 Drawer	-	FD0529	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Bilge Separator Feed Pump Packing - 582.12.01.008	2nd Deck 2SA - AG4 Drawer	-	FD0530	0	-	-	-	-	-	Nil	Surveyed 2018. Black
ACM	Bilge Pump Engine Room - Gland Packing - 435.11.01.010	2nd Deck 2SA - AG4 Drawer	64	FD0531	4	0	2	0	4	4	A2	Surveyed 2018. Pillar branded (old font) material is Black with White internal. Removed by PCB Holdings March 2018
ACM	Bilge Pump Engine Room - Gland Packing - 435.11.01.010	2nd Deck 2SA - AG4 Drawer	-	FD0532	0	-	-	-	-	-	Nil	Surveyed 2018. Pillar branded . Material is white
ACM	No 1 Gas Vent Duct Exhaust Fan Packing - 510.35.01.003	2nd Deck 2SA - AH5 Drawer	65	FD0533	4	0	2	0	4	4	A2	Surveyed 2018. Straight packing. Black with White internal . Removed by PCB WA March 2018
ACM	Forward Fire Pump Engine - Inlet manifold Gasket - 355.10.01.G23	2nd Deck 2SA - AH2 Drawer	-	FD0534	0	-	-	-	-	-	Nil	Surveyed 2018.
2nd Deck												
ACM	No 1 Lube Oil Purifier Brake Lining - 570.21.01.024	2nd Deck 2SA - AJ2 Drawer	-	FD0535	0	-	-	-	-	-	Nil	Surveyed 2018.

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	No 1 Evap Freshwater Pump - Gasket - 445.21.01.026	2nd Deck 2SA - AH1 Drawer	-	FD0536	0	-	-	-	-	-	Nil	Surveyed 2018. Valqua Blue with orange text
ACM	No1 Maine Engine Water Pump Turbine Gasket - 450.11.01.G36	2nd Deck 2SA - AL5 Drawer	-	FD0537	0	-	-	-	-	-	Nil	Surveyed 2018. Black/Grey in colour
ACM	No1 Maine Engine Water Pump Turbine Gasket - 450.11.01.GN0	2nd Deck 2SA - AL4 Drawer	-	FD0538	0	-	-	-	-	-	Nil	Surveyed 2018. Blue in colour
ACM	No1 Maine Engine Water Pump Turbine Throttle Valve Packing - 450.11.01.Z08	2nd Deck 2SA - AL3 Drawer	-	FD0539	0	-	-	-	-	-	Nil	Surveyed 2018. Black in Colour
ACM	Boiler Chemical Injection Pump 1 Gasket - 592.11.01.007	2nd Deck 2SA - AK5 Drawer	-	FD0540	0	-	-	-	-	-	Nil	Surveyed 2018. Black in Colour
ACM	Boiler Chemical Injection Pump 1 Packing - 592.11.01.G18	2nd Deck 2SA - AK5 Drawer	66	FD0541	4	0	4	0	4	3	A2	Valqua 1500 - Removed by PCB WA March 2018
ACM	No 1 Manifold Water Pump and Turbine Gasket X246 - 450.11.01.G37	2nd Deck 2SA - AL5 Drawer	-	FD0542	0	-	-	-	-	-	Nil	Surveyed 2018. Oil Sump Gasket. Klinger C-4401
ACM	Grey Reinz 34 Gasket - No Product Code	2nd Deck 2SA - AM6	-	FD0543	0	-	-	-	-	-	Nil	Surveyed 2018. Grey in colour
ACM	No 1 Main Feed Water Pump and Turbine Gasket X713 - 450.11.01.G12	2nd Deck 2SA - AL5/AC7	-	FD0544	0	-	-	-	-	-	Nil	Surveyed 2018. Interface N-8090. Grey in colour
ACM	Electro Hydraulic Steering Gear - Special packers - 296.10.01.001	2nd Deck 2SA - AM7	-	FD0545	0	-	-	-	-	-	Nil	Surveyed 2018. Valqua branded,
ACM	Windless / Winch Machinery - Packing - 201.10.01.G11	2nd Deck 2SA - BC2 Drawer	-	FD0546	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Windless / Winch Machinery - Packing for cover 4 - 201.10.01.G59	2nd Deck 2SA - BC2 Drawer	-	Same as FD0546	0	-	-	-	-	-	Nil	Surveyed 2018.
2nd Deck												
ACM	Windless / Winch Machinery - Packing for CV Connect - 201.10.01.G14	2nd Deck 2SA - BC2 Drawer	-	Same as FD0546	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Windless / Winch Machinery - Packing Valve Body - 201.10.01.G13	2nd Deck 2SA - BC2 Drawer	-	Same as FD0546	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Desuperheater - Distribution Plate Kit Packing	2nd Deck 2SA - BD6	-	FD0547	0	-	-	-	-	-	Nil	Surveyed 2018. Black in Colour - No Product Code
ACM	Windless / Winch Machinery - Brake Lining - 201.10.01.001	2nd Deck 2SA - BC6	-	FD0548	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Windless / Winch Machinery - Brake Lining - 201.10.01.002	2nd Deck 2SA - BC6	-	FD0549	0	-	-	-	-	-	Nil	Surveyed 2018.
ACM	Windless / Winch Machinery - Brake Lining - 201.10.01.009	2nd Deck 2SA - BC6	-	FD0550	0	-	-	-	-	-	Nil	
ACM	Windless / Winch Machinery - Brake Lining - 201.10.01.Z17	2nd Deck 2SA - BC6	-	FD0551	0	-	-	-	-	-	Nil	
ACM	Desuperheater - External Small Seat Gasket - 601.41.01.004	2nd Deck 2SA - BD2	-	FD0552	0	-	-	-	-	-	Nil	Spiral wound - White in colour
ACM	Desuperheater -Bonnet Gasket - 601.51.01.003	2nd Deck 2SA - BD2	-	FD0553	0	-	-	-	-	-	Nil	Spiral wound - White in colour

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
2nd Deck												
ACM	Desuperheater - Bonnet Gasket - 601.51.01.003	2nd Deck 2SA - BD2	-	FD0554	0	-	-	-	-	-	Nil	Spiral wound - Blue in colour
ACM	Main Steam System Pipe Lines - Flange Gasket - 739.11.01.G16	2nd Deck 2SA - BD2	-	FD0555	0	-	-	-	-	-	Nil	Spiral wound - White in colour
ACM	Main Steam System Pipe Lines - Packing Set - 739.11.01.G06	2nd Deck 2SA - BD2	-	FD0556	0	-	-	-	-	-	Nil	Spiral wound - White in colour
ACM	Main Steam System Pipe Lines - Flange Gasket - 709.11.01.Z04	2nd Deck 2SA - BD2	-	FD0557	0	-	-	-	-	-	Nil	Graphite
ACM	Main Steam System Pipe Lines - Flange Gasket - 739.11.01.G28	2nd Deck 2SA - BE4	-	FD0566	0	-	-	-	-	-	Nil	Spiral wound - White in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 1500lb- 739.11.01.G53	2nd Deck 2SA - BE4	67	FD0567	4	2	2	0	4	6	A2	Spiral wound - White in colour . Removed by PCB WA March 2018.
ACM	Main Steam System Pipe Lines - Flange Gasket 1500lb - 739.11.01.G93	2nd Deck 2SA - BE4	-	FD0568	0	-	-	-	-	-	Nil	Spiral wound - White in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 900 lb- 739.11.01.G06	2nd Deck 2SA - BE4	-	FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 600 lb- 739.11.01.G20	2nd Deck 2SA - BE4	-	Same As FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
2nd Deck												
ACM	Main Steam System Pipe Lines - Flange Gasket 600 lb- 739.11.01.G17	2nd Deck 2SA - BE4	-	Same As FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 900 lb- 739.11.01.G10	2nd Deck 2SA - BE4	-	Same As FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 900 lb- 739.11.01.G09	2nd Deck 2SA - BE4	-	Same As FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 600 lb- 739.11.01.G19	2nd Deck 2SA - BE4	-	Same As FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 600 lb- 739.11.01.G18	2nd Deck 2SA - BE4	-	Same As FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 900 lb- 739.11.01.G67	2nd Deck 2SA - BE4	-	Same As FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 600 lb- 739.11.01.G16	2nd Deck 2SA - BE3	-	Same As FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 600 lb- 739.11.01.G25	2nd Deck 2SA - BE3	-	Same As FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 600 lb- 739.11.01.G27	2nd Deck 2SA - BE3	-	Same As FD0569	0	-	-	-	-	-	Nil	Spiral wound - Green in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 600 lb- 739.11.01.G20	2nd Deck 2SA - BE3	-	FD0570	0	-	-	-	-	-	Nil	Spiral wound - White in colour
ACM	Main Steam System Pipe Lines - Flange Gasket 600 lb- 739.11.01.G72	2nd Deck 2SA - BE3	-	FD0571	0	-	-	-	-	-	Nil	Spiral wound - White in colour

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Cargo Tank Gauging Mounting Gland Gasket - 880.12.00.018	2nd Deck 2SA - CB5	68	FD0558	4	0	4	0	4	3	A2	Black in colour - - Removed by PCB WA March 2018
ACM	Cargo Tank Gauging -Dampener Gasket - 880.12.00.01	2nd Deck 2SA - CB5	69	FD0559	4	0	4	0	4	3	A2	Beige in colour. Removed by PCB WA March 2018
ACM	Cargo Tank Gauging -Barrier Gasket - 880.12.00.026	2nd Deck 2SA - CB5	70	Same as Fd059	4	0	4	0	4	3	A2	Beige in colour. Removed by PCB WA March 2018
ACM	Cargo Tank Gauging -Counter Cover Gasket - 880.12.00.025	2nd Deck 2SA - CB5	-	FD0560	0	-	-	-	-	-	Nil	Orange in colour. Scandura Railko Branded
ACM	Water Ballast Valve - Position Transmit Gasket 704.11.01.G84	2nd Deck 2SA - CB1	71	FD0561	P4	0	4	4	0	3	A4	Blue in colour with orange text. Valqua Branded. Removed by PCB WA March 2018
ACM	Water Ballast Valve - Position Transmit Gasket 704.11.01.G95	2nd Deck 2SA - CB1	72	Same As FD0561	P4	0	4	4	0	3	A4	Blue in colour with orange text. Valqua Branded. Removed by PCB WA March 2018
ACM	Hose Handling Crane - Brake Lining - 215.11.01.010	2nd Deck 2SA - CB6	-	FD0562	0	-	-	-	-	-	Nil	
ACM	No 1 Aux A/C Comp Gasket Set - 550.21.01.c01	2nd Deck 2SA - CD4	-	FD0563	0	-	-	-	-	-	Nil	Green in colour. Reinz AFM 38 branded
ACM	No 1 Aux A/C Comp Gasket Set - 550.21.01.c01	2nd Deck 2SA - CD4	-	FD0564	0	-	-	-	-	-	Nil	Grey in colour. Reinz AFM 38 branded
ACM	No 1 Provisions Refrigerator Compressor Gasket Kit - 552.11.01.c01	2nd Deck 2SA - CD3	-	Same As FD0563	0	-	-	-	-	-	Nil	Green in colour. Reinz AFM 38 branded
ACM	Main Air Cond.REF. Compressor Suction Cover Gasket	2nd Deck 2SA - CD1	-	FD0565	0	-	-	-	-	-	Nil	Grey in colour. Valqua 6471 branded. No Product Code.
ACM	Main Air Cond.REF. Compressor Blind Cover Gasket	2nd Deck 2SA - CD1	-	Same As FD0565	0	-	-	-	-	-	Nil	Grey in colour. Valqua 6471 branded. No Product Code.
ACM	Main Air Cond.REF. Compressor Bearing Gasket	2nd Deck 2SA - CD1	-	Same As FD0565	0	-	-	-	-	-	Nil	Grey in colour. Valqua 6471 branded. No Product Code.
ACM	Main Steam System Pipes Flange Gasket - 739.11.01.G08	2nd Deck 2SA - BE3	-	FD0572	0	-	-	-	-	-	Nil	Spiral Wound - White in Colour
ACM	Main Steam System Pipes Flange Gasket 739.11.01.G27	2nd Deck 2SA - BE3	-	Same as FD0572	0	-	-	-	-	-	Nil	Spiral Wound - White in Colour
ACM	Main Steam System Pipes Flange Gasket - 739.11.01.G07	2nd Deck 2SA - BE3	-	Same as FD0572	0	-	-	-	-	-	Nil	Spiral Wound - White in Colour
2nd Deck												
ACM	No 1 Boiler Soot blower Gland Packing - 693.10.01.018	2nd Deck 2SA - BF1	-	FD0573	0	-	-	-	-	-	Nil	Pillar branded -White/Grey in colour with Blue packaging
ACM	No 1 Boiler Soot blower Gland Packing - 693.10.01.018	2nd Deck 2SA - BF1	-	FD0574	0	-	-	-	-	-	Nil	Pillar branded -White/Green in colour with Green packaging
ACM	No 1 Boiler Soot blower Gland Packing - 693.10.01.010	2nd Deck 2SA - BF1	-	FD0575	0	-	-	-	-	-	Nil	Pillar branded -White/Grey in colour
ACM	No 1 Boiler Soot blower Gland Packing - 693.10.01.040	2nd Deck 2SA - BF1	-	FD0576	0	-	-	-	-	-	Nil	White/Blue in colour
ACM	No 1 Boiler Soot blower Gland Packing - 693.10.01.040 Gasket Rings within packaging	2nd Deck 2SA - BF1	73	FD0577	P4	0	4	4	0	3	A4	Pillar Gaskets used to separate gland packing. Clean Sheet with Green text. Removed by PCB WA March 2018

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	No 1 Boiler Soot blower Gland Packing - 693.10.01.010 Gasket Rings within packaging	2nd Deck 2SA - BF1	-	Same as FD0577	P4	0	4	4	0	3	A4	Pillar Gaskets used to separate gland packing. Clean Sheet with Green text. Removed by PCB WA March 2018
ACM	No 1 Boiler Soot blower Gland Packing - 693.10.01.018 Gasket Rings within packaging	2nd Deck 2SA - BF1	-	Same as FD0577	P4	0	4	4	0	3	A4	Pillar Gaskets used to separate gland packing. Clean Sheet with Green text. Removed by PCB WA March 2018
ACM	No 1 Boiler Soot blower Gland Packing - 693.10.01.018 Gasket Rings within packaging	2nd Deck 2SA - BF1	-	FD0578	0	-	-	-	-	-	Nil	Pillar Gaskets used to separate gland packing. Clean Sheet with Orange text.
ACM	Main Boilers Instrumentation - Sight Glass Gasket - 690.11.01.062	2nd Deck 2SA - BF2	-	FD0579	0	-	-	-	-	-	Nil	Black/Grey in Colour - Valqua branded
ACM	No1 Steam Air Heater Gasket- 686.11.01.005	2nd Deck 2SA - BF4	-	FD0580	0	-	-	-	-	-	Nil	Spiral Wound - White in Colour
ACM	No1 Steam Air Heater Gasket- 686.11.01.004	2nd Deck 2SA - BF4	-	Same As FD0580	0	-	-	-	-	-	Nil	Spiral Wound - White in Colour
ACM	No1 Steam Air Heater Gasket- 686.11.01.008	2nd Deck 2SA - BF4	-	Same As FD0580	0	-	-	-	-	-	Nil	Spiral Wound - White in Colour
ACM	Main Steam System Pipes Flange Gasket - 739.11.01.G03	2nd Deck 2SA- BF3	74	FD0581	4	2	2	0	4	6	A2	Spiral Wound - White in Colour . Removed by PCB WA March 2018
ACM	Main Steam System Pipes Flange Gasket - 739.11.01.G24	2nd Deck 2SA - BF3	-	FD0582	0	-	-	-	-	-	Nil	Spiral Wound - White in Colour
2nd Deck												
ACM	No1 Steam Air Heater Gasket- 686.11.01.007	2nd Deck 2SA - BF4	-	FD0583	0	-	-	-	-	-	Nil	Spiral Wound - White in Colour
ACM	Manoeuvring Valve Seat Packing 708.10.01.018	2nd Deck 2SA - BJ3	-	FD0584	0	-	-	-	-	-	Nil	White in colour. Friable on condition
ACM	Manoeuvring Valve Seat Packing 708.10.01.018	2nd Deck 2SA - BJ3	-	FD0585	0	-	-	-	-	-	Nil	Grey in colour
ACM	Manoeuvring Valve Gasket 708.10.01.037	2nd Deck 2SA - BJ3	-	FD0586	0	-	-	-	-	-	Nil	Spiral Wound - White in Colour
ACM	Manoeuvring Valve Joint Gasket 708.10.01.G02	2nd Deck 2SA - BJ3	75	FD0587	4	2	2	0	4	6	A2	Spiral Wound - White in Colour . Removed by PCB WA March 2018
ACM	Manoeuvring Valve Packing Gasket 708.10.01.G02	2nd Deck 2SA - BJ3	-	FD0588	0	-	-	-	-	-	Nil	Blue in colour with orange text. Valqua branded
ACM	Manoeuvring Valve Gasket 708.10.01.091	2nd Deck 2SA - BJ3	76	FD0589	1	2	2	0	1	6	A2	Items not identified during Post Refit August 2021 Survey. Presumed removed.
ACM	Manoeuvring Valve Gasket 708.10.01.098	2nd Deck 2SA - BJ3	-	FD0590	0	-	-	-	-	-	Nil	Beige in colour. Possibly Pillar Clean Sheet
ACM	Manoeuvring Valve packing 708.10.01.106	2nd Deck 2SA - BJ3	-	FD0591	0	-	-	-	-	-	Nil	Grey in colour
ACM	No 1 Boiler Man Hole Gasket - 680.10.01.029	2nd Deck 2SA - BG7	77	FD0592	4	2	2	0	4	6	A2	Spiral wound - White in colour. Removed by PCB WA March 2018
ACM	Turbine Casing Reduction Gear Door Gasket - 375.13.01.049	2nd Deck 2SA - BM7	78	FD0593	P4	0	4	4	0	3	A4	Orange in colour. Removed by PCB WA March 2018
ACM	Main Condenser Hot Well Packing Joint - 605.11.01.010	2nd Deck 2SA - BL7	79	FD0594	P1	0	1	1	0	3	A4	Blue in colour with orange text. Valqua branded. Removed by PCB WA March 2018

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
2nd Deck												
ACM	Main Condenser MA1 Condenser Lower Inspection Cover - 605.11.01.009	2nd Deck 2SA - BL7	80	FD0595	4	0	4	0	4	3	A2	Black/Grey in colour with Green text. Valqua 1500. Removed by PCB WA March 2018
ACM	Internal Coating to Cooking hot Plate	2nd Deck 2SA - DB4	-	FD0596	0	-	-	-	-	-	Nil	
ACM	No 1 Boiler Door Joint - 680.10.01.G03	2nd Deck 2SA - BG6	81	FD0597	4	2	2	2	4	8	A2	White in colour. Bagged. Friable on condition. Removed by PCB WA March 2018
ACM	No 1 Boiler Door Joint - 680.10.01.G02	2nd Deck 2SA - DB4	-	Same As FD0597	4	2	2	2	4	8	A2	White in colour. Bagged. Friable on condition. Removed by PCB WA March 2018
ACM	Emergency Diesel Generator - Gaskets	2nd Deck 2SA - HB1	82	FD0598	4	0	4	0	4	3	A2	Black/Grey in colour with green text - Valqua 1500. Removed by PCB WA March 2018
ACM	I.G Refridg Compressor Shaft Seal Cover Gasket	2nd Deck 2SA - HC1	83	FD0599	4	0	4	0	4	3	A2	Black in colour - Bagged. Removed by PCB WA March 2018
ACM	Vaporizer Facing Cushion - 655.12.01.G08	2nd Deck 2SA - GA1	-	FD0600	0	-	-	-	-	-	Nil	
ACM	Vaporizer Facing Sight Glass Gasket - 655.12.01.G07	2nd Deck 2SA - GA1	-	FD0601	0	-	-	-	-	-	Nil	
ACM	Main Feed Pump Copper Joint Gasket	2nd Deck 2SA - BL7	-	FD0602	0	-	-	-	-	-	Nil	No Product Code.
ACM	Woven Seal Spares	2nd Deck 2SA - BH3	144	ZA9469	4	4	0	0	3	5	A2	Removed by Thuroona WA September 2022
ACM	Woven Insulation	2nd Deck 2SA - Shelf C	142	ZA9468	4	2	4	2	2	8	A2	Removed by Thuroona WA September 2022
ACM	Woven Seal Spares	2nd Deck 2SA - AC4	-	ZA9467	0	-	-	-	-	-	Nil	Surveyed July 2022.
ACM	Gasket - Boiler sootblower port spares	2nd Deck 2SA - BF1	-	ZA9466	0	-	-	-	-	-	Nil	Surveyed July 2022.

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket - Boiler sootblower port spares	2nd Deck 2SA - BF1	-	ZA9465	0	-	-	-	-	-	Nil	Surveyed July 2022.
ACM	Gasket	2nd Deck 2SA - DE3	143	ZA9464	4	4	2	0	2	6	A2	Removed by Thuroona WA September 2022
ACM	Gasket	2nd Deck 2SA - AA3	-	ZA9460	0	-	-	-	-	-	Nil	Surveyed July 2022.
ACM	Gasket	2nd Deck 2SA - AA3	-	ZA9459	0	-	-	-	-	-	Nil	Surveyed July 2022.
ACM	Portside Hot water Heater Gasket	2nd Deck - Portside - Hot Water Heater	-	FD0666	0	-	-	-	-	-	Nil	
ACM	Pipe Lagging	2nd Deck - Portside - Chemical Metering Injection System	-	FD0667	0	-	-	-	-	-	Nil	
ACM	Loose Gasket within drum	2nd Deck - Starboard - Adjacent to L.O Tank Access Passage	-	FD0668	0	-	-	-	-	-	Nil	Black in colour
ACM	Sight Glass Gasket	2nd Deck - Starboard - D.O Tank FWD Sight Glass (5th from bottom)	-	FD0669	0	-	-	-	-	-	Nil	Light green
2nd Deck												
ACM	Gasket on Blanked Off Flange	2nd Deck - Starboard -FWD between No1 and No2 Panels for Air purged FL LT of Cargo Mach Rm	84	FD0670	P1	0	1	1	0	3	A4	Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Gasket to End Cover	2nd Deck - Starboard - Aux A/C Con No.1	-	FD0671	0	-	-	-	-	-	Nil	
ACM	Gasket to End Cover	2nd Deck - Starboard - Main A/C Con No.2	-	FD0672	0	-	-	-	-	-	Nil	
ACM	Gasket	2nd Deck - Starboard - Boiler Gas hood expansion piece out	-	FD0673	0	-	-	-	-	-	Nil	
ACM	Braking Lining to DM9	2nd Deck - Poop Deck - Port Winch DM9	-	FD0674	0	-	-	-	-	-	Nil	
ACM	Braking Lining to DM10	2nd Deck - Poop Deck - Starboard Winch DM10	-	FD0675	0	-	-	-	-	-	Nil	
ACM	Gasket to Cap.165 M5	2nd Deck - Poop Deck - FWD Adjacent Fire Hose 69	-	FD0676	0	-	-	-	-	-	Nil	
ACM	Loose Valve Gasket sat on Switchbox	2nd Deck - IGG Rm - Aft	85	FD0771	P4	0	4	4	0	3	A2	Blue in colour with orange text. Valqua branded. Removed and Spool Valve cleaned by PCB WA March 2018
ACM	Flange Gasket	2nd Deck - IGG Rm - Port	-	FD0772	0	-	-	-	-	-	Nil	Black in colour with green text
ACM	Sight Glass Flange Gasket	2nd Deck - IGG Rm - Aft Sight Glass	-	FD0773	0	-	-	-	-	-	Nil	Blue/Green in colour

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
2nd Deck												
ACM	Flange Gasket	2nd Deck - IGG Rm Aft	86	FD0774	1	0	1	0	1	3	A4	White in colour with red outer. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Deck Cable Penetration Packing material Debris	2nd Deck - No.1 Main Switchboard Rm - Above 440v main Feed Cabinets	87	FD0775	4	0	4	3	4	6	A2	Cleaned by PCB WA March 2018
ACM	Deck Cable Penetration Packing material Debris	2nd Deck - No.2 Main Switchboard Rm - Above 440v main Feed Cabinets	88	FD0776	4	0	4	3	4	6	A2	Cleaned by PCB WA March 2018
ACM	Float Switch Gasket	2nd Deck - Engine Room - Starboard FWD - Aux L.O Renov Tank	-	FD0853	0	-	-	-	-	-	Nil	Brown in colour
ACM	Flange Gasket	2nd Deck - Engine Room - Starboard FWD - No.2 Control Panel for Air Purge FL.LT of Cargo Mach Rm	89	FD0854	P1	0	1	1	0	3	A4	Blue in colour with orange text. Valqua branded. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Putty on Flange Gasket	2nd Deck - Engine Room - Starboard FWD - No.2 Control Panel for Air Purge FL.LT of Cargo Mach Rm	-	FD0855	0	-	-	-	-	-	Nil	Grey in colour
ACM	Flange Gasket	2nd Deck - Engine Room - Starboard FWD - between No.1 and No.2 Control Panel for Air Purge FL.LT of Cargo Mach Rm	-	FD0856	0	-	-	-	-	-	Nil	Black in colour
ACM	Loose Gasket	2nd Deck - Engine Room - Starboard FWD - Adjacent to L.O Renov Tank. In bucket	-	FD0857	0	-	-	-	-	-	Nil	James Walker Centrio
ACM	Flange Gasket	2nd Deck - Engine Room - Starboard - Aux A/C Comp 2	-	FD0858	0	-	-	-	-	-	Nil	Blue Teadit
ACM	Access Hatch Gasket	2nd Deck - Engine Room - Starboard - Gen Eng. Purify L.O Tank	90	FD0859	P1	0	1	1	0	3	A4	Blue in colour . Valqua branded. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	No.1 Diesel Generator Gasket	2nd Deck - 2SA AB3	91	FD0860	P1	0	1	1	0	3	A4	Unable to located during removal works. Locate and Remove From Service. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	No.1 Diesel Generator Gasket	2nd Deck - 2SA AB3		FD0861	0	-	-	-	-	-	Nil	Blue in colour - Valqua 6500
ACM	Emergency Diesel Generator Intake Manifold - 352.01.01.067	2nd Deck - 2SA AE4	92	Same as FD0860	P1	0	1	1	0	3	A4	Blue in colour orange text. Unable to located during removal works March 2018. Locate and Remove From Service. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	No.1 Main Condenser Vac Pump Packing - 444.11.01.005	2nd Deck 2SA-AF2	-	FD0862	0	-	-	-	-	-	Nil	White in colour
2nd Deck												
ACM	No.1 Main Condenser Vac Pump Packing - 444.11.01.005	2nd Deck 2SA-AF2	-	FD0863	0	-	-	-	-	-	Nil	Black in colour
ACM	Loose Packing Material	2nd Deck 2SA-BG6	-	FD0864	0	-	-	-	-	-	Nil	Black in colour with white core - Bagged for disposal
ACM	Flange Gasket	2nd Deck 2SA-BH4	-	FD0865	0	-	-	-	-	-	Nil	Brown in colour - James Walker Sentinel (old)
ACM	Remnant Gasket on Valve Flange	2nd Deck 2SA FC1	93	FD0866	P1	0	1	1	0	3	A4	Blue in colour orange text. Remove from Service. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Flange Gasket	2nd Deck 2SA Starboard - No1 Duct Vent	94	FD0867	P1	0	1	1	0	3	A4	Blue in colour orange text. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket to Spare Pipe Valve	Bosuns Store Starboard Side	-	V3179	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to LO Tank Manhole	Bosuns Store Starboard Side	-	V3180	0	0	0	0	0	0	Nil	Surveyed November 2012
2nd Deck												
ACM	Gasket to LO Tank Pipe Work	Bosuns Store Mid Ship	-	V3182	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Head Gasket to LO Expansion Tank	Bosuns Store Mid Ship	-	V3183	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Expansion Tank Sight Glass	Bosuns Store Mid Ship	-	V3184	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket Top of Expansion Tank Sight Glass	Bosuns Store Mid Ship	-	V3185	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to No 3 Windlass Pump	Bosuns Store Mid Ship	-	V3186	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fire Pump Bonnet Valve	Bosuns Store Mid Ship	-	V3187	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fire Pump Pipe Work	Bosuns Store Mid Ship	-	V3188	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Bosuns Store Mid Ship	-	V3189	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Port Side Under Deck Tunnel Aft	-	V3193	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to FO Settling Tank Blank Plate	Port Side Under Deck Tunnel Aft	-	V3194	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to WS 136-4 Pipe Work	Port Side Under Deck Tunnel Aft	-	V3195	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to No 5 FWD C17 Pipe Work	Port Side Under Deck Tunnel Mid Ship	-	V3196	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to No 1 Water Ballast Tank pipe work	Port Side Under Deck Tunnel Forward	-	V3197	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fire Main	Starboard Side Under Deck Tunnel	-	V3198	0	0	0	0	0	0	Nil	Surveyed November 2012
2nd Deck												
ACM	Gasket to Fire Main Pipe Work	Starboard Side Pipe Tunnel Frame 65	-	V3200	1	1	2	1	0	5	A4	Surveyed November 2012. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket Debris to Pipe Flange	Starboard Side Second Deck Store	-	V3201	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Stored Garlock Gasket Material	Starboard Side Second Deck Store	-	V3202	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Woven Lagging to boiler piping	Boiler area	-	CS0509	0	0	0	0	0	0	Nil	Surveyed November 2018. Sliver/white woven lagging insulation
ACM	Woven Lagging to A/C Outlet Pipe	STB	-	CS0517	0	0	0	0	0	0	Nil	Surveyed November 2018. White Coated woven lagging insulation
Forecastle												
ACM	Flange Gasket	Forecastle - Starboard Aft- Pipework Adjacent to Bilge Edict Drive	-	FD0777	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Brue in colour
ACM	Flange Gasket	Forecastle - Starboard Aft- Pipework Adjacent to Bilge Edict Drive	-	FD0778	0	-	-	-	-	-	Nil	Surveyed Feb 2018 White in colour
ACM	Air Line Flange Gasket	Forecastle - Starboard Aft- Hydraulic Oil store Tank	-	FD0779	0	-	-	-	-	-	Nil	Surveyed Feb 2018 White in colour
ACM	Cable Conduit Putty	Forecastle - Starboard Aft - No.4 Winch/Windlass Hydraulic Pump	95	FD0780	1	0	1	1	0	3	A4	Surveyed Feb 2018. Grey in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Exhaust Manifold Gasket	Forecastle - Aft - Emergency Fire Pump	96	FD0781	1	0	1	1	0	3	A4	Surveyed Feb 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Gasket Debris on Floor Under Pump Motor	Forecastle - Aft - Emergency Fire Pump	-	FD0782	0	-	-	-	-	-	Nil	Surveyed Feb 2018.
ACM												
Forecastle												
ACM	Flange Gasket on Pipe work	Forecastle - Aft - Emergency Fire Pump	97	FD0783	1	0	1	1	0	3	A4	Black in colour with green text. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Flange Gasket	Forecastle - Aft - Bilge Edict Drive [C LKR(P)]		FD0784								Surveyed Feb 2018 Blue in colour

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Flange Gasket	Forecastle - Aft - Bilge Educt Drive Fire V/v	98	FD0785	P1	0	1	1	0	3	A4	<p>Surveyed Feb 2018 White in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.</p> <p>Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)</p>
ACM	Flange Gasket	Forecastle - Port Aft- Bilge Drive Boson	99	FD0786	P1	0	1	1	0	3	A4	<p>Surveyed Feb 2018 White in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.</p> <p>Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)</p>
ACM	Loose Pipe Flange Gasket	Forecastle - Starboard FWD - Ships Frame	100	FD0787	P4	0	4	4	0	3	A4	Blue in colour orange text. Removed and cleaned by PCB WA 2018
ACM	Loose Flange Gasket	Forecastle - Starboard Aft on Wooden Shelving	101	FD0788	P4	0	4	4	0	3	A4	Blue in colour. Removed by PCB WA 2018
Upper Deck												
ACM	Dark Blue Gasket to New Fire main pipe under Starboard manifold	Upper Deck Starboard external	-	ZA22421	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Grey Gasket to New Fire main pipe under Starboard manifold	Upper Deck Starboard external	-	ZA22420	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Mastic/Cable Putty	Upper Deck, No.1 FD Fan Terminal Box	-	ZA22453	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Blue Gasket to New Fire main pipe under Starboard manifold	Upper Deck Starboard external	-	ZA22419	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	New cables penetration packing (floor) - White painted beige hardened mastic material	Upper Deck BA Compressor Room	-	ZA3167	0	-	-	-	-	-	Nil	
ACM	New cables penetration packing (floor) - White painted beige hardened mastic material	Upper Deck BA Compressor Room	-	ZA3168	0	-	-	-	-	-	Nil	
ACM	Portside Wall Cement Sheet Cladding	Upper Deck - No 1 Cargo Switchboard Room	-	FD0645	0	-	-	-	-	-	Nil	
ACM	Loose Tombo 1993 Gaskets	Upper Deck - Hydraulic Pump Unit Room	-	FD0646	0	-	-	-	-	-	Nil	

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Power unit (Cargo) Sight Glass Gasket	Upper Deck - Hydraulic Pump Unit Room	102	FD0647	1	0	1	1	0	3	A4	Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Cable Penetration Debris	Upper Deck - Electrical Cable Trunk	103	Same as FD0649	4	0	4	3	4	6	A2	Surveyed Feb 2018 Cleaned by PCB WA March 2018
ACM	AHU Duct mastic	Upper Deck - Air Handling Unit #1		FD0648	0	-	-	-	-	-	Nil	Surveyed Feb 2018
ACM	Cable Penetration Debris -Portside at High Level	Upper Deck - BA Compressor Room	104	Same as FD0649	4	0	4	3	4	6	A2	Surveyed Feb 2018. Cleaned by PCB WA March 2018
ACM	Cable Penetration Debris	Upper Deck - Distribution Panel Room	105	Same as FD0649	1	0	1	3	1	6	A2	Surveyed Feb 2018 Cable Penetration Debris - Unable to clean during march 2018 program due to vessel schedule change - Program for removal by a licensed asbestos removalist
ACM	Cable Penetration Material Debris on Fire System Lighting Panel and above Bulkhead	Upper Deck - Fire Control Room	106	Same as FD0649	4	0	4	3	4	6	A2	Surveyed Feb 2018. Cleaned by PCB WA March 2018
ACM	Penetration Debris	Upper Deck BA Compressor Room	407	FD0649	4	0	4	3	4	6	A2	Surveyed Feb 2018. Cleaned by PCB WA March 2018
ACM	Loose Valqua Gasket	Upper Deck - Fire Control Room	408	FD0650	4	0	4	4	0	3	A4	Surveyed Feb 2018. Blue in colour. Removed by PCB Holdings
ACM	Air Compressor Intake	Upper Deck BA Compressor Room	-	FD0652	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Dust Lift Sample
ACM	Air Compressor intake Filter	Upper Deck BA Compressor Room	-	FD0653	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Dust Lift Sample
Upper Deck												
ACM	Brake Lining	Upper Deck - External - Port FWD - Dm3 Winch	-	FD0789	0	-	-	-	-	-	Nil	Surveyed Feb 2018.
ACM	Brake Lining	Upper Deck - External - FWD - Dm1 Winch	-	FD0790	0	-	-	-	-	-	Nil	Surveyed Feb 2018.
ACM	Flange Gasket	Upper Deck - External - Starboard FWD - Airline adjacent UDDP Entrance	-	FD0791	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Blue in colour
ACM	Flange Gasket	Upper Deck - External - Port FWD - No1 Tank Air line	-	FD0792	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Blue in colour
ACM	Loose Flange Gaskets	Upper Deck - External - Starboard Deck Store and Workshop	409	FD0793	4	0	4	4	0	3	A4	Surveyed Feb 2018. Blue in colour. Removed by PCB WA March 2018
ACM	Loose Flange Gasket	Upper Deck - External - Starboard Deck Store and Workshop		FD0794	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Grey

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Loose Flange Gaskets	Upper Deck - External - Starboard Deck Store and Workshop	110	FD0795	P4	0	4	4	0	3	A4	Surveyed Feb 2018. Blue in colour. Removed by PCB WA March 2018
ACM	Flange Gasket	Upper Deck - External - Starboard Aft - Vent	111	FD0796	1	0	1	1	0	3	A4	White in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Pipework Bracket Woven Material	Upper Deck - External - Starboard Aft - Oxygen Tank Rm	-	FD0797	0	-	-	-	-	-	Nil	Surveyed Feb 2018. White in colour
ACM	Flange Gasket	Upper Deck - External - Starboard Aft - Fire Hose 41 Valve	-	FD0798	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Blue/Green in colour
ACM	Cable Conduit Putty	Upper Deck - Heli Deck - Perimeter Lights	-	FD0807	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Grey in colour
ACM	Water Valve Flange Gasket	Upper Deck - Heli Deck - Fire Hose 42	-	FD0808	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Blue in colour
ACM	Flange Gasket	Upper Deck - External - Port Aft - Sewerage Shore Connect	-	FD0809	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Black in colour
Upper Deck												
ACM	Fire Main Gasket	Fire Main Under Starboard Manifold	-	ZA22436	0	-	-	-	-	-	Nil	Surveyed October 2023
ACM	Loose Powder on Cable Penetrations	Upper Deck - Electrical Cable Trunk	-	FD0810	0	-	-	-	-	-	Nil	Surveyed Feb 2018. White in colour (Doesn't appear to originate from packing material)
ACM	Flange Gasket	Upper Deck - Engine Room - Port - Incinerator Exhaust	-	FD0818	0	-	-	-	-	-	Nil	Surveyed Feb 2018.
ACM	Remnant Gasket on Loose Flange Cover	Upper Deck - Engine Room - Port - Incinerator Exhaust	-	FD0819	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Blue in colour
ACM	Flange Gasket	Upper Deck - Engine Room - Port - Incinerator Flue Gas Fan	-	FD0820	0	-	-	-	-	-	Nil	Surveyed Feb 2018. F White in colour
ACM	Drain Valve Gasket	Upper Deck - Engine Room - FWD - Pipe Adjacent CCS . F.W Exp Tank	-	FD0821	0	-	-	-	-	-	Nil	Surveyed Feb 2018.
ACM	Intake Flange Gasket	Upper Deck - Engine Room - No.2 Forced Draft Fan	-	FD0822	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Beige in colour
ACM	Gasket to Distribution Valve Hose Box 20	Upper Deck - External - Starboard - DCP Rm	-	FD0823	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Green in colour
ACM	Loose Flange Gaskets	Upper Deck - External - Starboard - CMR - Work Bench	112	FD0824	4	0	4	0	4	3	A2	Surveyed Feb 2018. Blue in colour - Tombo 1000 - Removed by PCB WA March 2018
ACM	Loose Flange Gaskets	Upper Deck - External - Starboard - CMR	-	FD0825	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Brown in colour - James Walker Sentinel - Bagged for disposal
ACM	Loose Flange Gasket	Upper Deck - External - Starboard - CMR	-	FD0826	4	0	4	0	4	3	A2	Surveyed Feb 2018. Blue in colour - Removed by PCB WA March 2018

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket to Penetration	Upper Deck - External - Starboard - CMR - FWD Bulkhead	113	FD0827	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Grey in colour
ACM	Gasket to Pool Overboard Pipe Work	Air conditioning Room	-	V3141	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Main CCS F/W Exp Tank Manhole	Engine Casings	-	V3142	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Insulation Material to Cable Trays	Electric Cable Trunk	-	V3143	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to FiFi Pipe Work	Fire Control Centre	-	V3144	0	0	0	0	0	0	Nil	Surveyed November 2012
Upper Deck												
ACM	Gasket to FiFi Damper Foil Tank Inspection Hatch	Fire Control Centre	-	V3146	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Water Spray to Accommodation	Fire Control Centre	-	V3147	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Port Side Emergency Generator Room	-	V3148	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Port Side Emergency Generator Room	-	V3149	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Port Side Emergency Generator Room	-	V3150	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Oil Cooler Pipe Work	Port Side Emergency Generator Room	-	V3151	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Heat Exchanger Pipe Work	Port Side Emergency Generator Room	-	V3152	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Dry Powder Vessel Pipe Work	Port Side Dry Chemical Unit Room	-	V3153	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Dist Valve Hose Box Pipe Work	Port Side Dry Chemical Unit Room	-	V3154	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Power Unit Cargo Tank	Port Side Hydraulic Pump Unit Room	-	V3155	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Port Side C02 Bottle Room	-	V3156	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Brake Lining to FWD Starboard Tow Winch	Starboard Heli Deck	-	V3157	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Brake Lining to FWD Starboard Tow Winch	Starboard Heli Deck	-	V3158	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Port Side Deck Store	-	V3159	0	0	0	0	0	0	Nil	Surveyed November 2012

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket to Pipe Work	Starboard Workshop	-	V3160	0	0	0	0	0	0	Nil	Surveyed November 2012
Upper Deck												
ACM	Gasket to Fuel Oil Pipe Work	Port Side	-	V3161	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Fuel Oil Pipe Work	Port Side	-	V3162	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to DO Service Tank Vent Pipe Work	Port Side	-	V3163	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to FO Settling Tank Pipe work	Port side	-	V3164	0	0	0	0	0	0	Nil	Surveyed November 2012

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Gasket to FiFi Line Pipe Work	Port Side Mid Ship Heli Deck	-	V3165	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Separator Waste Oil Vent Pipe Work	Port Side	-	V3166	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Port Side Dry Chemical Hose No 16	-	V3171	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to No 6 Water Ballast Tank Pipe Work	Port Side Cargo Area	-	V3172	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to No 6 Water Ballast Tank Pipe Work	Port Side Cargo Area	-	V3173	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Port Side Dry Chemical Hose No 14	-	V3174	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Brake Lining to FWD Port Tow Winch	Port Side Forecastle Deck	-	V3175	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Brake Lining to FWD Port Tow Winch	Port Side Forecastle Deck	-	V3176	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Brake Lining to Anchor Winch	Port Side Forecastle Deck	-	V3177	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Brake Lining to Anchor Winch	Port Side Forecastle Deck	-	V3178	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to No 1 Water Ballast Tank Vent	Starboard Side Forward	-	V3190	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to FiFi Line Pipe Work	Starboard Side Forward	-	V3191	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket 1# water ballast Tanke Vent	Starboard Side Back	-	CS0501	0	0	0	0	0	0	Nil	Surveyed November 2018. Greeb/Blue/white coated gasket
ACM	Gasket 2# water ballast Tanke Vent	Starboard Side Back	-	CS0502	0	0	0	0	0	0	Nil	Surveyed November 2018. Greeb/Blue/white coated gasket
ACM	Gasket to Diesel oil manifold	Starboard Side Back	-	CS0503	0	0	0	0	0	0	Nil	Surveyed November 2018. Blue/black coated grey gasket
ACM	Gasket to bunker manifold	Starboard Side Back	-	CS0504	0	0	0	0	0	0	Nil	Surveyed November 2018. Blue/white coated grey gasket
ACM	Gasket to Water Spray Manifold	FCC	-	CS0516	0	0	0	0	0	0	Nil	Surveyed November 2018. Blue coated gasket
Under Deck Pipe Passage												
ACM	Fire Main Gasket	No.3 Dome, New fire main pipework	-	ZA22435	0	0	0	0	0	0	Nil	Surveyed October 2023
ACM	Fire Main Gasket	UDDP - Starboard Aft - Frame 65	115	Previously Sampled V3199	1	2	2	1	0	6	A4	Surveyed November 2012. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Fire Main Gasket	UDDP - Starboard Aft - Frame 65	-	Previously Sampled V3200	1	2	2	1	0	6	A4	Surveyed November 2012. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Fire Main Gasket	UDDP - Starboard Aft - Frame 86	116	FD0828	P1	0	1	1	0	3	A4	Surveyed Feb 2018. Blue in colour. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Fire Main Gasket	UDDP - Starboard Aft - Frame 95	-	FD0829	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Brown in colour
ACM	Flange Gasket	UDDP - Port - Frame 87 air line	-	FD0830	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Blue in colour
ACM	Cable Conduit Putty	UDDP - Port - Frame 87 Electrical box	117	FD0831	1	0	1	1	1	4	A4	Surveyed Feb 2018. Grey in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Gasket	UDDP - Port Aft - Dry Air Supply Valve	-	Previously Sampled V3192	1	1	2	0	0	4	A4	Surveyed Feb 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Gasket to deluge line	UDDP - Starboard - Frame 83		ZA9471	0	-	-	-	-	-	Nil	Surveyed July 2022
ACM	Gasket to Fire Line	UDDP - Starboard - Frame 79		ZA9470	0	-	-	-	-	-	Nil	Surveyed July 2022
A Deck												
ACM	Deck Cable Penetration Putty at Portside Combi Oven	A Deck - Kitchen - Portside	-	FD0639	0	-	-	-	-	-	Nil	Surveyed Feb 2018.
ACM	Loose - Metal Backed Cement Sheet	A Deck - Provision Loading	-	FD0640	0	-	-	-	-	-	Nil	Surveyed Feb 2018.
ACM	Cement Ceiling Panels	A Deck - Dirty Laundry / Chemical Store	-	FD0641	0	-	-	-	-	-	Nil	Surveyed Feb 2018.
ACM	Cable Penetration Material Debris	A Deck - Cable Trunk	-	Same As FD0635	1	0	1	3	1	6	A2	Surveyed Feb 2018. Floor and high level. Cleaned by PCB WA March 2018
ACM	Sludge Tank Sigh Glass Gaskets	A Deck - Incinerator Room - Sludge Tank	120	FD0642 and V3131	1	0	1	1	0	3	A4	Surveyed Feb 2018. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Diesel Tank Sigh Glass Gasket	A Deck - Incinerator Room - Diesel Tank Sight Glass	-	FD0643	0	-	-	-	-	-	Nil	Surveyed Feb 2018.
ACM	Incinerator Ash in Bin	A Deck - Incinerator Room - Ash bin	-	FD0644	0	-	-	-	-	-	Nil	Surveyed Feb 2018.

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Deluge Flange Gasket	A Deck - External - Port Aft - Adjacent to Incinerator Rm	121	FD0799	1	0	1	1	0	3	A4	Surveyed Feb 2018. White in colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Gasket to Incinerator DO Service Tank Sight Glass	Starboard Side Incinerator Room	-	V3132	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Incinerator DO Service Tank Manhole	Starboard Side Incinerator Room	-	V3133	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Incinerator Sludge DO Tank P/W	Starboard Side Incinerator Room	-	V3134	0	-	-	-	-	-	Nil	Surveyed November 2012
A Deck												
ACM	Gasket to Incinerator Sludge Tank Pipe Work	Starboard Side Incinerator Room	-	V3135	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Cement Insulation Material to Pipe Cables	Starboard Side Incinerator Room	-	V3136	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Incinerator Pipe Work	Starboard Side Incinerator Room	-	V3137	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Insulation Debris to Frame Below Incinerator Pipe Work	Starboard Side Engine Casings	-	V3138	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket Debris to Spare Blank Plate Incinerator P/W	Starboard Side Engine Casings	-	V3139	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	Port Side Waste Disposal Room	-	V3167	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Woven insulation to incinerator pipework	Incinerator sludge tank steam HT	144	ZA9476	1	-	-	-	-	-	Nil	Removed during 2022 removal works.
ACM	Gasket	#1 Generator Exhaust	-	ZA9462	0	-	-	-	-	-	Nil	Surveyed July 2022.
B Deck												
ACM	Cement Sheet to Door	B Deck - Sauna	-	ZA9463	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Previously sample V3129 Positive for asbestos. It has since been removed in Singapore Drydock and current material installed. Confirmation sample taken during 2022 July visit, sample number updated.
ACM	Cement Sheet to Heating Element	B Deck - Sauna	-	FD0622	0	-	-	-	-	-	Nil	Surveyed Feb 2018. . Previously sample V3129 Positive for asbestos. It has since been removed in Singapore Drydock and current material installed
ACM	Cement Sheet to Base Plate	B Deck - Sauna	-	NA	0	-	-	-	-	-	Nil	Removed since last audit
ACM	Deluge Flange Gasket	B Deck - External - Starboard Adjacent to Pool	-	FD0801	0	-	-	-	-	-	Nil	Surveyed Feb 2018. White in colour with blue outer
ACM	Airline Flange Gasket	B Deck - External - Starboard Adjacent to Pool	-	FD0802	0	-	-	-	-	-	Nil	Surveyed Feb 2018.
ACM	Blue Vinyl Deck Covering	Corridor to Gym	-	V3127	0	-	-	-	-	-	Nil	Surveyed November 2012

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Pale Blue Vinyl Floor Covering	Gym	-	V3128	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Cement sheet to walls	B Deck - Sauna	-	ZA9464	0	-	-	-	-	-	Nil	Remaining debris along walls.
B Deck												
ACM	Gasket to Silver Pipe Work	Starboard Side Engine Casings	-	V3140	0	-	-	-	-	-	Nil	Surveyed November 2012
C Deck												
ACM	Gasket to flange of Ice Machine Water Connection	C Deck - Crew Lounge	122	FD0638	P1	0	1	1	0	3	A4	Surveyed Feb 2018. Blue in colour. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Speckled Cream Vinyl Deck Covering	Crew Lounge	-	V3126	0	-	-	-	-	-	Nil	Surveyed November 2012
D Deck												
ACM	Cable Penetration Debris	D Deck - Electrical cable trunk FWD and Aft	123	Same As FD0635	4	0	4	3	4	6	A2	Surveyed Feb 2018. White in colour. Cleaned by PCB WA March 2018
ACM	Deluge Flange Gasket	D Deck - External - Starboard	-	FD0803	0	-	-	-	-	-	Nil	Surveyed Feb 2018. White in colour
ACM	Cream Vinyl Deck Covering	Officers Lounge	-	V3125	0	-	-	-	-	-	Nil	Surveyed November 2012
E Deck												
ACM	Red painted grey fibrous gasket material	Fire Main E Deck Port at new section flange	-	ZA3172	0	-	-	-	-	-	Nil	Surveyed 2021
ACM	Green painted beige fibrous gasket material	Fire Main E Deck Port at new section flange (upper)	-	ZA3173	0	-	-	-	-	-	Nil	Surveyed 2021
ACM	Penetration Debris	E Deck - Electrical cable trunk	124	Same As FD0635	4	0	4	3	4	6	A2	Surveyed Feb 2018. White in colour. Cleaned by PCB WA February 2018
ACM	Cable Penetration Material	E Deck - Electrical cable trunk - Aft	-	FD0637	1	0	1	1	1	4	A4	Surveyed Feb 2018. White in colour
ACM	Gasket to FiFi Line Pipe Work	Mid Ship Fire Hose Cupboard	-	V3123	0	0	0	0	0	0	Nil	Surveyed November 2012
ACM	Gasket to Ventilation Pipe Work	Midship Ventilation Trunk Room	-	V3124	0	0	0	0	0	0	Nil	Surveyed November 2012
F Deck												
ACM	White paint-like coating material with attached fibrous gasket material	F Deck AFT Deck Penetration Flange	-	ZA3173	0	-	-	-	-	-	Nil	Surveyed 2021
ACM	Pillar Gasket spacers within a pillar graphite gasket box	F Deck - No 2 Equipment Store	126	FD0577	P4	0	4	4	0	3	A4	Surveyed Feb 2018. Pillar Clean Sheet gasket material with green text. Removed by PCB WA March 2018

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Unbranded packing material	F Deck - No 2 Equipment Store - Blue parts container unit	127	FD0631	4	4	2	4	4	6	A3	Surveyed Feb 2018. Black with white centre. Removed by PCB WA February 2018
ACM	Small Loose Gasket	F Deck - No 2 Equipment Store - FWD Desk Drawer		FD0632	P4	0	4	4	0	3	A4	Surveyed Feb 2018. Blue in colour. Removed by PCB WA February 2018
	Small Loose Gaskets	F Deck - No 2 Equipment Store - BB2 Shelf	128	FD0633	4	4	2	0	4	5	A3	Surveyed Feb 2018. Spiral wound - White in colour. Removed by PCB WA February 2018
ACM	Cable Penetration Material Debris	F Deck - Cable store Port side	130	FD0634	4	0	4	3	4	6	A2	Surveyed Feb 2018. White in Colour. Cleaned by PCB WA March 2018
ACM	Cable Penetration Material	F Deck - Cable store Port side		FD0635	1	0	1	1	1	4	A4	Surveyed Feb 2018. White in Colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
ACM	Gasket To Hot Water Valve Flange	F Deck Ventilation Trunk		FD0636	P1	0	1	1	0	3	A4	Surveyed Feb 2018. Blue in colour. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Penetration Material Debris	F Deck - No 1 Equipment room - starboard side below metal raised flooring	132	Same as FD0635	1	0	1	3	1	6	A2	Surveyed Feb 2018. White in Colour. Manage and remain in situ. Inspect Periodically for damage. This item is recommended to be removed by a Licensed Asbestos Removal Contractor (LARC) with next scheduled maintenance.
F Deck												
ACM	Flange Gasket	F Deck - External - Starboard Airline	-	FD0805	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Blue
ACM	Loose Gasket	F Deck - External - Port - Protective equipment Rm	-	FD0806	0	-	-	-	-	-	Nil	Surveyed Feb 2018. Blue
ACM	Gasket to Pipe Work	F Deck -Starboard Side F Deck External	-	V3169	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Tombo 1955 Spare Gasket Material	F Deck Stores Starboard	-	V3212	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Old Blue Spare Gasket Material	F Deck -Electric cable Trunk to Shelving	-	V3213	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	GASKOID Spare Gasket Material	F Deck - Electric cable Trunk to Shelving	-	V3214	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Pipe Work	F Deck - Starboard Side F Deck External	-	V3169	0	-	-	-	-	-	Nil	Surveyed November 2012
G Deck												
ACM	Pillar branded packing material	G Deck - Electrical Cable Trunk	133	FD0627	4	4	2	4	4	6	A3	Surveyed Feb 2018. Black in colour with white centre. Pillar Packing #315 branded. Removed by PCB WA march 2018
ACM	FWD Bulk head cable penetration packing debris	G Deck - Electrical Cable Trunk - FWD	134	FD0628	4	0	4	3	4	6	A2	Cleaned by PCB WA February 2018
ACM	Portside Bulk head cable penetration packing debris	G Deck - Electrical Cable Trunk - Port side above door	-	Same as FD0628	4	0	4	3	4	6	A2	Surveyed Feb 2018. Cleaned by PCB WA February 2018

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Loose Used Gasket to DCP System	G Deck - Electrical Cable Trunk	-	FD0630	P1	0	1	1	0	3	A4	Surveyed Feb 2018. Blue in colour. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
G Deck												
ACM	Pillar branded packing material	G Deck - Radio Workshop cupboard	-	FD0629	0	-	-	-	-	-	Nil	Surveyed Feb 2018. White in colour - Pillar Packing #4516L
ACM	Deck Head Cable Penetration Packing Material Debris	G Deck - C.A.C.C Engine Room Control Cabinets	-	FD0631	1	0	1	3	1	6	A2	Surveyed Feb 2018. Cleaned by PCB WA March 2018
ACM	Loose Gaskets	G Deck - Electrical Cable Trunk	-	FD0832	P1	0	1	1	0	3	A4	Surveyed Feb 2018. White with Blue Text - Garlock. Unknown Mineral Fibres Detected by PLM Including DS. (Note: The fibres detected may or may not be Asbestos fibres. To confirm the identities, another independent analytical technique may be necessary)
ACM	Textile Wrap to Pipe Work Flange	Starboard Side G Deck External	-	V3170	0	0	0	0	0	0	Nil	Surveyed Feb 2018.
Nav. Bridge												
ACM	Deck Cable Penetration Packing Material Debris	Navigation Bridge - FWD access panel adjacent X Band Node 3	-	FD0624	P1	0	1	3	1	6	A2	Surveyed Feb 2018. Returned a Negative asbestos result. Due to the widespread use of ACM in penetration material onboard, it should be assumed all penetration material contains Asbestos. Requires a clean
ACM	Deck Cable Penetration Packing Material Debris	Navigation Bridge - Cabinet adjacent to navigation light switch board panel	-	FD0625	P1	0	1	3	1	6	A2	Surveyed Feb 2018. Cleaned by PCB WA March 2018
ACM	Deck Cable Penetration Packing Material Debris	Navigation Bridge - Wheel house Desk Light panels	-	FD0626	P1	0	1	3	1	6	A2	Surveyed Feb 2018. Returned a Negative asbestos result. Due to the widespread use of ACM in penetration material onboard, it should be assumed all penetration material contains Asbestos. Requires a clean
Nav. Bridge												
ACM	Deck Cable Penetration Packing Material Debris	Navigation Bridge - Wheel house Group Panels	-	Same as FD0626	P2	0	1	3	1	6	A2	Surveyed Feb 2018. Returned a Negative asbestos result. Due to the widespread use of ACM in penetration material onboard, it should be assumed all penetration material contains Asbestos. Requires a clean
ACM	Valve Flange Gasket	Navigation Deck - Port FWD Fire Hose 3	-	FD0807	0	-	-	-	-	-	Nil	Surveyed Feb 2018

Hazard	Material Description	Location	Photograph No.	Sample Number	Asbestos Fibre Type	Surface Treatment	Product Type	Condition	Likelihood of Disturbance	Risk Score	Action Rating	Comments/Recommendations
ACM	Vinyl to Staircase	Staircase to Navigation Deck	-	V3114	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Vinyl to Water Fountain Floor	Navigation Deck	-	V3115	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Cement Ceiling Tile Lay in Grid	Starboard Side Radar Room	-	V3116	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Blue Vinyl to Deck	Port Side CACC Room	-	V3117	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to FiFi Pipe Work	Navigation Deck	-	V3118	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Ventilation Trunk Pipe Work	Navigation Deck	-	V3119	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Gasket to Ventilation Trunk Pipe Work	Navigation Deck	-	V3120	0	-	-	-	-	-	Nil	Surveyed November 2012
ACM	Insulation to Door Lining	Administration Room	-	V3121	0	-	-	-	-	-	Nil	Surveyed November 2012

APPENDIX B: LABORATORY ANALYSIS CERTIFICATE



Bulk Identification Report

Job No: 754-PEREN324124 Bulk ID Report NW Snipe 31102023
Client: Australian Shell Tankers
Client Address: Shell House, 562 Wellington Street Perth WA 6000
Contact: Ben Wright
E-mail: Ben.wright@tetratech.com
Date Sampled: 24-10-23
Date Analysed: 03-11-23
Date Authorised: 03-11-23
Sampled By: Ben Wright
Site: NW Snipe, Docked in Dampier Port, The Esplanade, Dampier WA 6713



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 Sampled 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: 40

Approved Identifier
Panika Wongchanda

Approved Signatory
Matthew Tang

Sample No.	Location & Description	Sample Size (-)	Results
ZA22414	3rd Deck, New IGS SW Vent Pipe, Gasket - White painted blue fibrous gasket material	12 x 4 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA22415	4th Deck, Starboard Cooler New Adapter, Gasket - White painted blue fibrous gasket material	12 x 11 x 3 mm	No asbestos fibres detected Organic fibres detected
ZA22416	4th Deck, Port CCS SW outlet, Gasket - White painted blue fibrous gasket material	12 x 8 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA22417	4th Deck, Main CCS SW Pipe Outlet to Cooler, Gasket - White painted blue/beige fibrous gasket material	20 x 10 x 3 mm	No asbestos fibres detected Organic fibres detected
ZA22418	Tank Top, Starboard FWD, Blige pipe section, Gasket - Blue fibrous gasket material	14 x 11 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA22419	Upper Deck, Fire main pipe under Starboard Manifold, Gasket - Blue - Red painted blue fibrous gasket material	22 x 8 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA22420	Upper Deck, Fire main pipe under Starboard Manifold, Gasket - Grey - Beige painted black fibrous gasket material	18 x 6 x 2 mm	No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected
ZA22421	Upper Deck, Fire main pipe under Starboard Manifold, Gasket - Dark Blue - Blue fibrous gasket material	8 x 6 x 3 mm	No asbestos fibres detected Organic fibres detected
ZA22422	Tank top, Port Condenser, Upper Float Transmitter, Gasket - Black rubbery gasket material	12 x 6 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA22423	Tank Top Centre, Main Lube oil cooler, Gasket - White painted black fibrous gasket material	12 x 8 x 2 mm	No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected

03-11-23

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Sample No.	Location & Description	Sample Size (-)	Results
ZA22424	Lower Plates, Port FWD inductor pump outlet flange - White painted blue fibrous gasket material	28 x 8 x 3 mm	No asbestos fibres detected Organic fibres detected
ZA22425	Lower Plates, Port AFT, Port bilge piping - Blue fibrous gasket material	12 x 2 x 1 mm	No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected
ZA22426	3rd Deck, Workshop, Gasket bench workshop Blue/Green Sheet - Gasket - Green fibrous gasket material	14 x 12 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA22427	3rd Deck, Workshop, Gasket bench workshop White Sheet - Gasket - Beige fibrous gasket material	22 x 10 x 2 mm	No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected
ZA22428	3rd Deck, Workshop, Gasket bench workshop light Blue Sheet - Gasket - Grey fibrous gasket material	27 x 17 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA22429	3rd Deck, Workshop, Gasket bench workshop Yellow Sheet - Gasket - Yellow painted grey fibrous gasket material	24 x 18 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA22430	3rd Deck, Workshop, Gasket bench workshop Red/White Sheet - Gasket - Red painted beige fibrous gasket material	25 x 15 x 3 mm	No asbestos fibres detected Organic fibres detected
ZA22431	3rd Deck, Workshop, Gasket bench workshop Dark Blue Sheet - Gasket - Blue painted black fibrous gasket material	19 x 9 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA22432	3rd Deck, Workshop, Gasket bench workshop Black Sheet - Gasket - Black fibrous gasket material	23 x 18 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA22433	Ventilation Fan Walkway, Port Boiler Superheater, Insulation Packing - Beige powdery plaster material	21 x 8 x 4 mm	No asbestos fibres detected Organic fibres detected
ZA22434	Ventilation Fan Walkway, Walkway adjacent to incinerator, Insulation Debris Grey vitreous fibrous insulation material	72 x 45 x 6 mm	No asbestos fibres detected Synthetic mineral fibres detected
ZA22435	Number 3 Dome Flying passage, New firemain pipe, Gasket - White painted blue fibrous gasket material	10 x 6 x 3 mm	No asbestos fibres detected Organic fibres detected
ZA22436	Upper Deck Starboard, Fire Main Under starboard Manifold Gasket - White painted blue fibrous gasket material	15 x 7 x 3 mm	No asbestos fibres detected Organic fibres detected
ZA22437	3rd Deck Workshop, Cable Pen Putty to Arc Welder Box, Mastic Putty - Grey soft mastic material	28 x 12 x 3 mm	Chrysotile (white asbestos) detected Organic fibres detected
ZA22438	3rd Deck Workshop, Milling Machine Cable Pen, Mastic Putty - Grey soft mastic material	23 x 11 x 3 mm	Chrysotile (white asbestos) detected Organic fibres detected
ZA22439	3rd Deck Workshop, Starboard Settling Tank, Trace Heating Insulation - Beige vitreous fibrous insulation material	35 x 17 x 3 mm	No asbestos fibres detected Organic fibres detected
ZA22440	4th Deck, Port Aux Feed pump inlet, Gasket - Grey fibrous gasket material	24 x 5 x 2 mm	Chrysotile (white asbestos) detected Organic fibres detected
ZA22441	Lower Plates, Port FWD No.1 Ballast Pump, Cabling/Insulation - Brown woven sheet material	30 x 17 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA22442	Lower Plates, Port FWD, No.1 FWG ejector pump discharge Gasket - Green painted beige fibrous gasket material	18 x 10 x 2 mm	No asbestos fibres detected Organic fibres detected
ZA22443	Boiler Tops, Above Aerator Outlet line, Lagging, Insulation Debris - Brown vitreous fibrous insulation material	72 x 35 x 4 mm	No asbestos fibres detected Synthetic mineral fibres detected
ZA22444	Boiler tops, Cable Penetration to Boiler gauge Board - Grey soft mastic material	25 x 10 x 2 mm	Chrysotile (white asbestos) detected Organic fibres detected
ZA22445	Boiler Tops, No.2 Boiler Gauge glass, Lagging - Beige vitreous fibrous insulation material	22 x 13 x 1 mm	No asbestos fibres detected Synthetic mineral fibres detected
ZA22446	Boiler tops, No.2 Boiler HFO Mouth lagging - Brown vitreous fibrous insulation material	40 x 10 x 1 mm	No asbestos fibres detected Synthetic mineral fibres detected

Sample No.	Location & Description	Sample Size (-)	Results
ZA22447	3rd Deck, AFT, IMPA Steam Trap Drain, lagging - Beige vitreous fibrous insulation material	32 x 24 x 4 mm	No asbestos fibres detected Organic fibres detected
ZA22448	2PA, No.2 Calorifier Steam Inlet, Gasket - Blue fibrous gasket material	20 x 15 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA22449	2PA, No.2 Calorifier Steam Inlet, Lagging - Beige vitreous fibrous insulation material	52 x 27 x 3 mm	No asbestos fibres detected Synthetic mineral fibres detected
ZA22450	2PA, No.1 Calorifier Pump outlet, Gasket - Blue fibrous gasket material	10 x 5 x 1 mm	No asbestos fibres detected Organic fibres detected
ZA22451	2nd Deck, Water for FO Return Cooler - White painted grey fibrous gasket material	12 x 7 x 1 mm	No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected
ZA22452	2nd Deck, AC Flat, Main AC Control Panel penetration - Beige cement material	28 x 14 x 2 mm	No asbestos fibres detected
ZA22453	FD Fun Flat, Upper Deck, No.1 FD Fan terminal Box, Putty/Mastic - Grey soft mastic material	27 x 12 x 10 mm	No asbestos fibres detected Organic fibres detected

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APPENDIX C: RISK ASSESSMENT & GLOSSARY

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-cabling)

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

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

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.

R	Return to Service	Restricted Access to Items for Reassurance
	Return to Service	Return to Service, No Asbestos Detected

APPENDIX D: LEGISLATIVE REQUIREMENTS

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
Western Australia (WA)	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	
Western Australia (WA)	Code of Practice: How to manage and control asbestos in the workplace	Code of Practice: How to Safely Remove Asbestos

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

APPENDIX E: METHODOLOGY

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

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.