

Test Report

Report No.: SZT202009040017E

Issue Date: 2020/09/18

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Applicant: Varuna Marine Services



Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Name : See the text
Vessel Name : Sea meridian
Sample Quantity : 105 units
Date Submitted : Sep.04,2020
Test Period : Sep.04,2020 ~ Sep.15,2020

Test Request : Based on the Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009 (the Hong Kong Convention) by International Maritime Organization (IMO), and the 2015 Guidelines for the Development of the Inventory of Hazardous Materials (MEPC.269(68)) by Marine Environment Protection Committee, EU Regulation 1257/2013 on ship recycling, EMSA's Best Practice Guidance on the Inventory of Hazardous Materials and according to the customer's request to determine the submitted samples whether contain Asbestos,PCB,PCN,PFOS,PBB,PBDE,SCCP,ODS,HBCDD,Pb,Cd,Hg,Cr⁶⁺ as client specified.

Test Method : (1) ISO 22262-1:2012 Air quality -- Bulk materials -- Part 1: Sampling and qualitative determination of asbestos in commercial bulk materials.
(2) IEC 62321-6:2015 Determination of certain substances in electrotechnical – Part 6: Gas chromatography mass spectrometry (GC/MS) for the determination of polybrominated biphenyls and polybrominated diphenyl ethers..
(3) IEC 62321-5:2013 Procedures for the determination of concentrations of restricted substances in electrical and electronic products - Part 5: Determination of cadmium, lead and chromium, metals in polymers and electronic materials using AAS, AFS, ICP-OES and ICP-MS Cadmium and lead.(ICP-OES).
(4) IEC 62321-4:2017 Determination of certain substances in electrical products - Part 4: Inductively coupled by CV-AFS CV-AAS The content of mercury in polymers, metals and electronic products was determined by ICP-OES and inductively coupled plasma ICP-MS.
(5) EPA 8082A: 2007 Polychlorinated biphenyls (PCBs) by gas chromatography.
(6) EPA 8270E:2018 Semi-volatile organic compounds by gas chromatography/mass spectrometry.(GC/MS).
(7) CEN/TS 15968-2010 Determination of extractable perfluorooctane sulfonate pfos in coated and impregnated solid articles, liquids and fire fighting foams - method for sampling, extraction and analysis by lc-qms or lc-tandem/ms;

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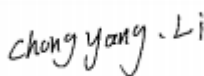
(8) IEC 62321-7-2:2017 Determination of certain substances in electronic products -
Part 7-2 hexavalent chromium - Determination of polymers by colorimetry
Hexavalent chromium (Cr(VI)) in electronic products.

(9) EPA 8260D :2018 Volatile Organic Compounds by Headspace gas
chromatography (GC/MS)

Test Result(s) : Please refer to next pages.

Signed for and on behalf of
Suzhou FALAB Test Technology Co., LTD

Signed for and on behalf of
Suzhou FALAB Test Technology Co., LTD



Chongyang.Li/ Testing Director

Xiaoling.Sun/Report Approver

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Test Result

Note: According to the customer's requirement, Laboratory Sample No. should be aligned with Customer Sample No., therefore the Laboratory Sample No. of our company may be discontinuous.

Asbestos

1) Tester: Fengnan. Xu

2) Test Environment: Temperature 25°C; Humidity 50%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S001	Sea water pump, Body packing	T202009040017-001	Table 1	Refer to (1)
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S002	Sea water pipeline, Flange Gasket	T202009040017-002		
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S003	Fire & GS Pump, Body Packing	T202009040017-003		
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S004	Fire Line, Flange Gasket	T202009040017-004		
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S005	Boiler feed water pipeline, Flange Gasket	T202009040017-005		
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S006	Oily Water Separator(OWS), Body Packing	T202009040017-006		
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S007	Propeller Shaft Intermediate Bearing Casing, Packing	T202009040017-007		
Floor Plan, E/R Floor Deck, Wall	VMS-Seameridia n-S008	Lube oil line, Flange Gasket-2	T202009040017-008		
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S009	Diesel Oil pipe line, Flange Gasket	T202009040017-009		
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S010	Lube Oil (LO) Pipe line, Flange Gasket-1	T202009040017-010		

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Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands



Test Result (Continued)

Asbestos

1) Tester: Fengnan. Xu

2) Test Environment: Temperature 25°C; Humidity 50%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S011	Lube Oil pump, Body Packing	T202009040017-011	Table 1	Refer to (1)
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S012	Valve, Packing	T202009040017-012		
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S013	Ballast water pipeline, Flange Gasket	T202009040017-013		
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S014	Fuel Oil (FO) pump, Flange Gasket	T202009040017-014		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S018	HT Cooler, Body Packing	T202009040017-018		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S019	Main air compressor, Body Packing	T202009040017-019		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S020	Compressed Air line, Flange Gasket	T202009040017-020		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S021	Fresh water pipeline-1, Flange Gasket	T202009040017-021		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S022	Fresh water pipeline-2, Flange Gasket	T202009040017-022		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S023	Fresh water generator, Body Packing	T202009040017-023		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S024	Heat exchanger, Flange Packing	T202009040017-024		

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Test Result (Continued)

Asbestos

1) Tester: Fengnan. Xu

2) Test Environment: Temperature 25°C; Humidity 50%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S025	Main Generator, Body Packing	T202009040017-025	Table 1	Refer to (1)
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S026	Main Generator, T/C lagging material	T202009040017-026		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S027	Main Engine, Exhaust pipe insulation	T202009040017-027		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S029	Main Generator, Exhaust pipe insulation	T202009040017-029		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S030	Cascade tank, Body Insulation	T202009040017-030		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S031	Atmospheric Condensor, Body Packing	T202009040017-031		
Lower Platform, Purifier Room	VMS-Seameridia n-S032	FO Sett. Tank, Manhole packing	T202009040017-032		
Lower Platform, Purifier Room	VMS-Seameridia n-S033	Fuel Oil (FO), Pipe Insulation	T202009040017-033		
Lower Platform, Purifier Room	VMS-Seameridia n-S034	Fuel Oil (FO) pipeline, Flange Gasket	T202009040017-034		
Lower Platform, Purifier Room	VMS-Seameridia n-S035	Purifier, Body Packing	T202009040017-035		
Lower Platform, Purifier Room	VMS-Seameridia n-S036	Lube Oil (LO), Pipe Insulation	T202009040017-036		
Lower Platform, Purifier Room	VMS-Seameridia n-S037	Heater, Body Packing	T202009040017-037		

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Test Result (Continued)

Asbestos

1) Tester: Fengnan. Xu

2) Test Environment: Temperature 25°C; Humidity 50%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S038	Main Engine, T/C insulation	T202009040017-038	Table 1	Refer to (1)
Upper Platform, E/R Upper Platform	VMS-Seameridia n-S039	AC Compressor, Body Packing	T202009040017-039		
Upper Platform, E/R Upper Platform	VMS-Seameridia n-S040	Calorifier, Hot water pipe insulation	T202009040017-040		
Upper Platform, E/R Upper Platform	VMS-Seameridia n-S041	Incinerator, Door Packing	T202009040017-041		
Upper Platform, E/R Upper Platform	VMS-Seameridia n-S042	Incinerator, Exhaust pipe insulation	T202009040017-042		
Upper Platform, Engine Control Room, Floor	VMS-Seameridia n-S044	Floor, Cement	T202009040017-044		
Upper Platform, Engine Control Room, Ceiling	VMS-Seameridia n-S045	Ceiling panel, Insulation	T202009040017-045		
Upper Platform, Engine Control Room, Wall	VMS-Seameridia n-S047	Wall Panel, Insulation	T202009040017-047		
Upper Platform, E/R Upper Platform	VMS-Seameridia n-S048	Aux. Boiler, Door Packing	T202009040017-048		
Floor Plan, E/R Floor Deck, Wall	VMS-Seameridia n-S049	Escape trunk, Bulkhead Insulation, A-60	T202009040017-049		

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Test Result (Continued)

Asbestos

1) Tester: Fengnan. Xu

2) Test Environment: Temperature 25°C; Humidity 50%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Profile Aft, Steering gear room	VMS-Seameridi an-S051	Steering gear Unit,, Body Packing	T202009040017-051	Table 1	Refer to (1)
Upper Platform, E/R Upper Platform	VMS-Seameridi an-S053	Aux. Boiler, Insulation	T202009040017-053		
Upper Platform, E/R Upper Platform	VMS-Seameridi an-S054	Steam Line, Pipe Insulation	T202009040017-054		
Upper Platform, E/R Upper Platform	VMS-Seameridi an-S055	Steam Line, Flange Gasket	T202009040017-055		
Upper Platform, E/R Upper Platform	VMS-Seameridi an-S056	Hot water, Pipe Insulation	T202009040017-056		
Upper Platform, Store room	VMS-Seameridi an-S057	Spare gasket, Gasket Type -1	T202009040017-057		
Upper Platform, Store room	VMS-Seameridi an-S058	Spare gasket, Gasket Type -2	T202009040017-058		
Upper Platform, Store room	VMS-Seameridi an-S059	Gland packng, Type -1	T202009040017-059		
Upper Platform, Store room	VMS-Seameridi an-S060	Gland packng, Type -2	T202009040017-060		
Upper Platform, E/R Upper Platform	VMS-Seameridi an-S062	Aux. Boiler, Burner Packing	T202009040017-062		
Engine Casing, A Deck Casing	VMS-Seameridi an-S063	Economizer, Insulation	T202009040017-063		

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Test Result (Continued)

Asbestos

1) Tester: Fengnan. Xu

2) Test Environment: Temperature 25°C; Humidity 50%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Upper Deck Aft, AC room	VMS-Seameridia n-S065	Air Duct, Insulation	T202009040017-065	Table 1	Refer to (1)
Upper Deck Aft, Passageway	VMS-Seameridia n-S067	Watertight door, Sealing	T202009040017-067		
Upper Deck Aft, Foam and Fire control room	VMS-Seameridia n-S068	Bulkhead, Insulation, Fiber Wool	T202009040017-068		
A-Deck, Galley, Floor	VMS-Seameridia n-S070	Floor, Tile	T202009040017-070		
A-Deck, Passageway	VMS-Seameridia n-S071	A-60 Fire door, Frame packing	T202009040017-071		
A-Deck, Passageway	VMS-Seameridia n-S072	Bulkhead, Insulation	T202009040017-072		
B-Deck, Crew's Day Room	VMS-Seameridia n-S073	Bulkhead, Thermal Insulation, Glass wool	T202009040017-073		
B-Deck, Crew's Day Room, Ceiling	VMS-Seameridia n-S074	Ceiling Panel, Insulation	T202009040017-074		
B-Deck, Crew's Day Room, Floor	VMS-Seameridia n-S075	Floor, PVC	T202009040017-075		
C-Deck, Officer's Laundry, Floor	VMS-Seameridia n-S076	Floor, Tile	T202009040017-076		
C-Deck, Officer's Smoking Room, Forward wall	VMS-Seameridia n-S077	Wall Panel, Insulation, B-Class Rock wool Wall Panel	T202009040017-077		

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Test Result (Continued)

Asbestos

1) Tester: Fengnan. Xu

2) Test Environment: Temperature 25°C; Humidity 50%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
E-Deck, Elec. Equipment room,	VMS-Seameridia n-S079	Cable Penetration, Sealing material	T202009040017-079	Table 1	Refer to (1)
E-Deck, WC, Floor	VMS-Seameridia n-S080	WC floor, Tile	T202009040017-080		
E-Deck, Wheel house, Ceiling	VMS-Seameridia n-S082	Ceiling Panel, Insulation	T202009040017-082		
E-Deck, Wheel house, Floor	VMS-Seameridia n-S084	Floor, Rubber Mat	T202009040017-084		
E-Deck, Wheel house, Forward wall	VMS-Seameridia n-S085	Window, Rubber Sealing	T202009040017-085		
E-Deck, Wheel house, Floor	VMS-Seameridia n-S086	Floor, Cement	T202009040017-086		
E-Deck, Wheel house, Wall	VMS-Seameridia n-S096	Wall, Insulation towards the steel	T202009040017-096		
A-Deck, Emergency generator room	VMS-Seameridia n-S087	Emergency Generator, T/C insulation	T202009040017-087		
A-Deck, Emergency generator room	VMS-Seameridia n-S088	Emergency Generator, Exhaust pipe insulation	T202009040017-088		
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S089	Main Engine, Body packing	T202009040017-089		
D-Deck, Chief Eng Day room, Wall	VMS-Seameridia n-S090	Bulkhead, Insulation, A-60	T202009040017-090		
D-Deck, Chief Eng Day room, Floor	VMS-Seameridia n-S091	Floor, Cement	T202009040017-091		

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Test Result (Continued)

Asbestos

1) Tester: Fengnan. Xu

2) Test Environment: Temperature 25°C; Humidity 50%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
D-Deck, Chief Eng Day room, Floor	VMS-Seameridia n-S092	Floor, Carpet	T202009040017-092	Table 1	Refer to (1)
Upper Deck Aft, Upper Deck Aft	VMS-Seameridia n-S094	Mooring winch, Brake pad	T202009040017-094		
A-Deck, Inert Gas generator room	VMS-Seameridia n-S095	Inert Gas Generator, Body Packing	T202009040017-095		
E-Deck, Wheel house, Wall	VMS-Seameridia n-S096	Wall, Insulation towards the steel	T202009040017-096		
C-Deck, Officer's Smoking Room	VMS-Seameridia n-S097	Port hole, Rubber Sealing	T202009040017-097		
Upper Deck Aft, Upper Deck Aft	VMS-Seameridia n-S099	Fire Hydrant System, Flange Gasket	T202009040017-099		
Upper Deck Mid, Mid Ship	VMS-Seameridia n-S101	Cargo Oil Pump, Body Packing	T202009040017-101		
Forecastle Deck, Forecastle Deck	VMS-Seameridia n-S102	Air Vent, Packing	T202009040017-102		
Upper Deck Mid, Mid Ship	VMS-Seameridia n-S103	Ballast tank, Manhole packing	T202009040017-103		
Upper Deck Mid, Mid Ship	VMS-Seameridia n-S105	Cargo pipe, Flange Gasket	T202009040017-105		
Forecastle Deck, Forecastle Deck	VMS-Seameridia n-S106	Windlass, Brake pad	T202009040017-106		

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Test Result (Continued)

Table1

Technical Requirements		1. 2015 Guidelines for the development of the Inventory of Hazardous Materials, the asbestos threshold level is 0.1%; 2. From 1 January 2011, any installation of materials that contain asbestos will, under SOLAS regulation II-1/3-5, be prohibited, for all ships without exceptions.					
Sample No.	Test Result	Asbestos Type / CAS No.					
		Chrysotile	Crocidolite	Amosite	Anthophyllite asbestos	Tremolite	Actinolite asbestos
		12001-29-5	12001-28-4	12172-73-5	77536-67-5	77536-68-6	77536-66-4
001	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
002	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
003	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
004	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
005	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
006	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
007	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
008	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
009	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
010	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					

Note: 001 is short for T202009040017-001, and so on.

Detection limit: 0.1%.

ND= Less than detection limit, Judged to be Pass

Detection= Greater than detection limit, Judged to be Fail

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Applicant: Varuna Marine Services



Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands

Test Result (Continued)

Table1(Continued)

Technical Requirements		1. 2015 Guidelines for the development of the Inventory of Hazardous Materials, the asbestos threshold level is 0.1%; 2. From 1 January 2011, any installation of materials that contain asbestos will, under SOLAS regulation II-1/3-5, be prohibited, for all ships without exceptions.					
Sample No.	Test Result	Asbestos Type / CAS No.					
		Chrysotile	Crocidolite	Amosite	Anthophyllite asbestos	Tremolite	Actinolite asbestos
		12001-29-5	12001-28-4	12172-73-5	77536-67-5	77536-68-6	77536-66-4
011	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
012	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
013	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
014	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
018	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
019	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
020	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
021	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
022	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
023	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					

Note: 011 is short for T202009040017-011, and so on.

Detection limit: 0.1%.

ND= Less than detection limit, Judged to be Pass

Detection= Greater than detection limit, Judged to be Fail

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Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands

Test Result (Continued)

Table1 (Continued)

Technical Requirements		1. 2015 Guidelines for the development of the Inventory of Hazardous Materials, the asbestos threshold level is 0.1%; 2. From 1 January 2011, any installation of materials that contain asbestos will, under SOLAS regulation II-1/3-5, be prohibited, for all ships without exceptions.					
Sample No.	Test Result	Asbestos Type / CAS No.					
		Chrysotile	Crocidolite	Amosite	Anthophyllite asbestos	Tremolite	Actinolite asbestos
		12001-29-5	12001-28-4	12172-73-5	77536-67-5	77536-68-6	77536-66-4
024	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
025	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
026	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
027	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
029	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
030	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
031	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
032	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
033	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
034	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					

Note: 024 is short for T202009040017-024, and so on.

Detection limit: 0.1%.

ND= Less than detection limit, Judged to be Pass

Detection= Greater than detection limit, Judged to be Fail

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Applicant: Varuna Marine Services



Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands

Test Result (Continued)

Table1 (Continued)

Technical Requirements		1. 2015 Guidelines for the development of the Inventory of Hazardous Materials, the asbestos threshold level is 0.1%; 2. From 1 January 2011, any installation of materials that contain asbestos will, under SOLAS regulation II-1/3-5, be prohibited, for all ships without exceptions.					
Sample No.	Test Result	Asbestos Type / CAS No.					
		Chrysotile	Crocidolite	Amosite	Anthophyllite asbestos	Tremolite	Actinolite asbestos
		12001-29-5	12001-28-4	12172-73-5	77536-67-5	77536-68-6	77536-66-4
035	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
036	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
037	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
038	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
039	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
040	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
041	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
042	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
044	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
045	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					

Note: 035 is short for T202009040017-035, and so on.

Detection limit: 0.1%.

ND= Less than detection limit, Judged to be Pass

Detection= Greater than detection limit, Judged to be Fail

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Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands

Test Result (Continued)

Table1 (Continued)

Technical Requirements		1. 2015 Guidelines for the development of the Inventory of Hazardous Materials, the asbestos threshold level is 0.1%; 2. From 1 January 2011, any installation of materials that contain asbestos will, under SOLAS regulation II-1/3-5, be prohibited, for all ships without exceptions.					
Sample No.	Test Result	Asbestos Type / CAS No.					
		Chrysotile	Crocidolite	Amosite	Anthophyllite asbestos	Tremolite	Actinolite asbestos
		12001-29-5	12001-28-4	12172-73-5	77536-67-5	77536-68-6	77536-66-4
047	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
048	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
049	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
051	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
053	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
054	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
055	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
056	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
057	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
058	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					

Note: 047 is short for T202009040017-047, and so on.

Detection limit: 0.1%.

ND= Less than detection limit, Judged to be Pass

Detection= Greater than detection limit, Judged to be Fail

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Applicant: Varuna Marine Services



Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands

Test Result (Continued)

Table1 (Continued)

Technical Requirements		1. 2015 Guidelines for the development of the Inventory of Hazardous Materials, the asbestos threshold level is 0.1%; 2. From 1 January 2011, any installation of materials that contain asbestos will, under SOLAS regulation II-1/3-5, be prohibited, for all ships without exceptions.					
Sample No.	Test Result	Asbestos Type / CAS No.					
		Chrysotile	Crocidolite	Amosite	Anthophyllite asbestos	Tremolite	Actinolite asbestos
		12001-29-5	12001-28-4	12172-73-5	77536-67-5	77536-68-6	77536-66-4
059	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
060	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
062	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
063	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
065	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
067	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
068	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
070	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
071	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
072	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					

Note: 059 is short for T202009040017-059, and so on.

Detection limit: 0.1%.

ND= Less than detection limit, Judged to be Pass

Detection= Greater than detection limit, Judged to be Fail

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Applicant: Varuna Marine Services



Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands

Test Result (Continued)

Table1 (Continued)

Technical Requirements		1. 2015 Guidelines for the development of the Inventory of Hazardous Materials, the asbestos threshold level is 0.1%; 2. From 1 January 2011, any installation of materials that contain asbestos will, under SOLAS regulation II-1/3-5, be prohibited, for all ships without exceptions.					
Sample No.	Test Result	Asbestos Type / CAS No.					
		Chrysotile	Crocidolite	Amosite	Anthophyllite asbestos	Tremolite	Actinolite asbestos
		12001-29-5	12001-28-4	12172-73-5	77536-67-5	77536-68-6	77536-66-4
073	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
074	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
075	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
076	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
077	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
079	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
080	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
082	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
084	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
085	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					

Note: 073 is short for T202009040017-073, and so on.

Detection limit: 0.1%.

ND= Less than detection limit, Judged to be Pass

Detection= Greater than detection limit, Judged to be Fail

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Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands

Test Result (Continued)

Table1 (Continued)

Technical Requirements		1. 2015 Guidelines for the development of the Inventory of Hazardous Materials, the asbestos threshold level is 0.1%; 2. From 1 January 2011, any installation of materials that contain asbestos will, under SOLAS regulation II-1/3-5, be prohibited, for all ships without exceptions.					
Sample No.	Test Result	Asbestos Type / CAS No.					
		Chrysotile	Crocidolite	Amosite	Anthophyllite asbestos	Tremolite	Actinolite asbestos
		12001-29-5	12001-28-4	12172-73-5	77536-67-5	77536-68-6	77536-66-4
086	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
087	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
088	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
089	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
090	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
091	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
092	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
094	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
095	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
096	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					

Note: 086 is short for T202009040017-086, and so on.

Detection limit: 0.1%.

ND= Less than detection limit, Judged to be Pass

Detection= Greater than detection limit, Judged to be Fail

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Applicant: Varuna Marine Services



Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands

Test Result (Continued)

Table1 (Continued)

Technical Requirements		1. 2015 Guidelines for the development of the Inventory of Hazardous Materials, the asbestos threshold level is 0.1%; 2. From 1 January 2011, any installation of materials that contain asbestos will, under SOLAS regulation II-1/3-5, be prohibited, for all ships without exceptions.					
Sample No.	Test Result	Asbestos Type / CAS No.					
		Chrysotile	Crocidolite	Amosite	Anthophyllite asbestos	Tremolite	Actinolite asbestos
		12001-29-5	12001-28-4	12172-73-5	77536-67-5	77536-68-6	77536-66-4
097	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
099	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
101	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
102	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
103	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
105	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					
106	Result	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	Judgement	PASS					

Note: 097 is short for T202009040017-097, and so on.

Detection limit: 0.1%.

ND= Less than detection limit, Judged to be Pass

Detection= Greater than detection limit, Judged to be Fail

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Applicant: Varuna Marine Services

Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands



Test Result (Continued)

Polychlorinated Biphenyl (PCB)

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Profile Aft, Steering gear room	VMS-Seameridia n-S052	Steering gear, Hydraulic Oil	T202009040017-052	Table 2	Refer to (5)
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S015	Main Engine, Lube Oil	T202009040017-015		
Lower Platform, E/R Lower Platform	VMS-Seameridia n-S028	Main Generator, Lube Oil	T202009040017-028		
Upper Platform, E/R Upper Platform	VMS-Seameridia n-S043	Power Unit, Hydraulic Oil	T202009040017-043		
Upper Platform, Elec. Workshop	VMS-Seameridia n-S061	Spare Cable, Cable sheath	T202009040017-061		
E-Deck, Wheel house, Floor	VMS-Seameridia n-S084	Floor, Rubber Mat	T202009040017-084		
E-Deck, Wheel house, Forward wall	VMS-Seameridia n-S085	Window, Rubber Sealing	T202009040017-085		
Upper Deck Fore, Bosun Store	VMS-Seameridia n-S100	Hydraulic Unit, Hydraulic Oil	T202009040017-100		

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Applicant: Varuna Marine Services

Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands



Test Result(Continued)

Table 2

Laboratory Sample No.	Test Item	Unit	Test Result
T202009040017-052	2,4,4'-Trichlorobiphenyl	mg/kg	ND
	2,2',5,5'-Tetrachlorobiphenyl	mg/kg	ND
	2,2',4,5,5'-Pentachlorobiphenyl	mg/kg	ND
	2,3',4,4',5-Pentachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',4,4',5,5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	mg/kg	ND
	Total polychlorinated biphenyls (PCBs)	mg/kg	ND
T202009040017-015	2,4,4'-Trichlorobiphenyl	mg/kg	ND
	2,2',5,5'-Tetrachlorobiphenyl	mg/kg	ND
	2,2',4,5,5'-Pentachlorobiphenyl	mg/kg	ND
	2,3',4,4',5-Pentachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',4,4',5,5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	mg/kg	ND
	Total polychlorinated biphenyls (PCBs)	mg/kg	ND
T202009040017-028	2,4,4'-Trichlorobiphenyl	mg/kg	ND
	2,2',5,5'-Tetrachlorobiphenyl	mg/kg	ND
	2,2',4,5,5'-Pentachlorobiphenyl	mg/kg	ND
	2,3',4,4',5-Pentachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',4,4',5,5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	mg/kg	ND
	Total polychlorinated biphenyls (PCBs)	mg/kg	ND

Note: ND = Not Detected, less than 5mg/kg

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Test Result(Continued)

Table 2

Laboratory Sample No.	Test Item	Unit	Test Result
T202009040017-043	2,4,4'-Trichlorobiphenyl	mg/kg	ND
	2,2',5,5'-Tetrachlorobiphenyl	mg/kg	ND
	2,2',4,5,5'-Pentachlorobiphenyl	mg/kg	ND
	2,3',4,4',5-Pentachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',4,4',5,5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	mg/kg	ND
	Total polychlorinated biphenyls (PCBs)	mg/kg	ND
T202009040017-061	2,4,4'-Trichlorobiphenyl	mg/kg	ND
	2,2',5,5'-Tetrachlorobiphenyl	mg/kg	ND
	2,2',4,5,5'-Pentachlorobiphenyl	mg/kg	ND
	2,3',4,4',5-Pentachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',4,4',5,5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	mg/kg	ND
	Total polychlorinated biphenyls (PCBs)	mg/kg	ND
T202009040017-084	2,4,4'-Trichlorobiphenyl	mg/kg	ND
	2,2',5,5'-Tetrachlorobiphenyl	mg/kg	ND
	2,2',4,5,5'-Pentachlorobiphenyl	mg/kg	ND
	2,3',4,4',5-Pentachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',4,4',5,5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	mg/kg	ND
	Total polychlorinated biphenyls (PCBs)	mg/kg	ND

Note: ND = Not Detected, less than 5mg/kg

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Test Result(Continued)

Table 2

Laboratory Sample No.	Test Item	Unit	Test Result
T202009040017-085	2,4,4'-Trichlorobiphenyl	mg/kg	ND
	2,2',5,5'-Tetrachlorobiphenyl	mg/kg	ND
	2,2',4,5,5'-Pentachlorobiphenyl	mg/kg	ND
	2,3',4,4',5-Pentachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',4,4',5,5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	mg/kg	ND
	Total polychlorinated biphenyls (PCBs)	mg/kg	ND
T202009040017-100	2,4,4'-Trichlorobiphenyl	mg/kg	ND
	2,2',5,5'-Tetrachlorobiphenyl	mg/kg	ND
	2,2',4,5,5'-Pentachlorobiphenyl	mg/kg	ND
	2,3',4,4',5-Pentachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',4,4',5,5'-Hexachlorobiphenyl	mg/kg	ND
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	mg/kg	ND
	Total polychlorinated biphenyls (PCBs)	mg/kg	ND

Note: ND = Not Detected, less than 5mg/kg

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Test Result(Continued)

Pb

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Unit	Test Result	Test Method
Floor Plan, E/R Floor Deck, Floor	VMS-Seameridian-S016	Floor, Paint Coating	T202009040017-016	mg/kg	295	Refer to (3)
Floor Plan, E/R Floor Deck, Wall	VMS-Seameridian-S017	Wall, Paint Coating	T202009040017-017	mg/kg	ND	
E-Deck, Open Deck, Wall	VMS-Seameridian-S093	Wall, Paint Coating	T202009040017-093	mg/kg	ND	
E-Deck, Open Deck, Floor	VMS-Seameridian-S081	Floor, Paint Coating	T202009040017-081	mg/kg	ND	
D-Deck, Passageway	VMS-Seameridian-S098	Lower wall, Skirt lining	T202009040017-098	mg/kg	2.1×10 ³	
Upper Deck Mid, Mid Ship, Deck	VMS-Seameridian-S104	Deck, Paint Coating	T202009040017-104	mg/kg	ND	

Note: ND = Not Detected, less than 2mg/kg (Pb), The limit value of Pb is 1000mg/kg.

Test Result (Continued)

Cd

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Unit	Test Result	Test Method
Floor Plan, E/R Floor Deck, Floor	VMS-Seameridian-S016	Floor, Paint Coating	T202009040017-016	mg/kg	ND	Refer to (3)

Note: ND = Not Detected, less than 2mg/kg.

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Test Result (Continued)

Cd

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Unit	Test Result	Test Method
Floor Plan, E/R Floor Deck, Wall	VMS-Seameridian-S017	Wall, Paint Coating	T202009040017-017	mg/kg	ND	Refer to (3)
E-Deck, Open Deck, Wall	VMS-Seameridian-S093	Wall, Paint Coating	T202009040017-093	mg/kg	ND	
E-Deck, Open Deck, Floor	VMS-Seameridian-S081	Floor, Paint Coating	T202009040017-081	mg/kg	ND	
Upper Deck Mid, Mid Ship, Deck	VMS-Seameridian-S104	Deck, Paint Coating	T202009040017-104	mg/kg	ND	

Note: ND = Not Detected, less than 2mg/kg.

Cr⁶⁺

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Unit	Test Result	Test Method
Floor Plan, E/R Floor Deck, Floor	VMS-Seameridian-S016	Floor, Paint Coating	T202009040017-016	mg/kg	ND	Refer to (8)
Floor Plan, E/R Floor Deck, Wall	VMS-Seameridian-S017	Wall, Paint Coating	T202009040017-017	mg/kg	ND	

Note: ND = Not Detected, less than 2mg/kg.

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Test Result (Continued)

Cr⁶⁺

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Unit	Test Result	Test Method
E-Deck, Open Deck, Wall	VMS-Seameridian-S093	Wall, Paint Coating	T202009040017-093	mg/kg	ND	Refer to (8)
E-Deck, Open Deck, Floor	VMS-Seameridian-S081	Floor, Paint Coating	T202009040017-081	mg/kg	ND	
Upper Deck Mid, Mid Ship, Deck	VMS-Seameridian-S104	Deck, Paint Coating	T202009040017-104	mg/kg	ND	

Note: ND = Not Detected, less than 2mg/kg.

Hg

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Unit	Test Result	Test Method
Floor Plan, E/R Floor Deck, Floor	VMS-Seameridian-S016	Floor, Paint Coating	T202009040017-016	mg/kg	ND	Refer to (4)
Floor Plan, E/R Floor Deck, Wall	VMS-Seameridian-S017	Wall, Paint Coating	T202009040017-017	mg/kg	ND	
E-Deck, Open Deck, Wall	VMS-Seameridian-S093	Wall, Paint Coating	T202009040017-093	mg/kg	ND	
E-Deck, Open Deck, Floor	VMS-Seameridian-S081	Floor, Paint Coating	T202009040017-081	mg/kg	ND	
Upper Deck Mid, Mid Ship, Deck	VMS-Seameridian-S104	Deck, Paint Coating	T202009040017-104	mg/kg	ND	

Note: ND = Not Detected, less than 2mg/kg.

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Test Result (Continued)

Perfluorooctane sulfonates (PFOS)

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Unit	Test Result	Test Method
Profile Aft, Steering gear room	VMS-Seameridia n-S052	Steering gear, Hydraulic Oil	T202009040017-052	mg/kg	ND	Refer to (7)
Upper Deck Aft, Foam and Fire control room	VMS-Seameridia n-S064	Foam Solution	T202009040017-064	mg/kg	ND	
E-Deck, Open Deck, Wall	VMS-Seameridia n-S093	Wall, Paint Coating	T202009040017-093	mg/kg	ND	
E-Deck, Elec. Equipment room,	VMS-Seameridia n-S078	Multiple Cable, Sheath	T202009040017-078	mg/kg	ND	

Note: ND = Not Detected, less than 1mg/kg.

HBCDD

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Unit	Test Result	Test Method
A-Deck, Galley, Floor	VMS-Seameridia n-S070	Floor, Tile	T202009040017-070	mg/kg	ND	Refer to (6)
E-Deck, Elec. Equipment room,	VMS-Seameridia n-S078	Multiple Cable, Sheath	T202009040017-078	mg/kg	ND	
Upper Deck Mid, Mid Ship, Deck	VMS-Seameridia n-S104	Deck, Paint Coating	T202009040017-104	mg/kg	ND	

Note: ND = Not Detected, less than 5mg/kg.

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Test Result (Continued)

PCN

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Floor Plan, E/R Floor Deck	VMS-Seameridia n-S015	Main Engine, Lube Oil	T202009040017-015	Table 3	Refer to (6)
Floor Plan, E/R Floor Deck, Floor	VMS-Seameridia n-S016	Floor, Paint Coating	T202009040017-016		

Table 3

Laboratory Sample No.	Test Item	Unit	Test Result
T202009040017-015	Trichloro-Naphthalene	mg/kg	ND
	Tetrachloro-Naphthalene	mg/kg	ND
	Pentachloro-Naphthalene	mg/kg	ND
	Hexachloro-Naphthalene	mg/kg	ND
	Heptachloro-Naphthalene	mg/kg	ND
	Octachloro-Naphthalene	mg/kg	ND
T202009040017-016	Trichloro-Naphthalene	mg/kg	ND
	Tetrachloro-Naphthalene	mg/kg	ND
	Pentachloro-Naphthalene	mg/kg	ND
	Hexachloro-Naphthalene	mg/kg	ND
	Heptachloro-Naphthalene	mg/kg	ND
	Octachloro-Naphthalene	mg/kg	ND

Note: ND = Not Detected, less than 5 mg/kg.

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Test Result (Continued)

ODS

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Upper Deck Aft, AC room	VMS-Seameridia n-S066	AC Unit, Pipe Insulation	T202009040017-066	Table 4	Refer to (9)

Table 4

Laboratory Sample No.	Test Item	Unit	Test Result
T202009040017-066	CFCs	mg/kg	ND
	Halons	mg/kg	ND
	Other fully halogenated CFCs	mg/kg	ND
	Carbon tetrachloride	mg/kg	ND
	1,1,1-Trichloroethane (Methyl chloroform)	mg/kg	ND
	Hydrochlorofluorocarbons	mg/kg	ND
	Hydrobromofluorocarbons	mg/kg	ND
	Methyl bromide	mg/kg	ND
	Bromochloromethane	mg/kg	ND
	Total ozone-depleting substances	mg/kg	ND

Note: ND = Not Detected, less than 1mg/kg.

Polybrominated diphenyl ethers (PBDEs)

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Upper Deck Aft, AC room	VMS-Seameridia n-S066	AC Unit, Pipe Insulation	T202009040017-066	Table 5	Refer to (2)
Upper Deck Aft, Passageway	VMS-Seameridia n-S067	Watertight door, Sealing	T202009040017-067		

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Test Result (Continued)

Table 5

Sample No.	Test Item	Unit	Test Result
T202009040017-066	Monobromobiphenyl ethers	mg/kg	ND
	Dibromodiphenyl ethers	mg/kg	ND
	Tribromodiphenyl ethers	mg/kg	ND
	Tetrabromodiphenyl ethers	mg/kg	ND
	Pentabromodiphenyl ethers	mg/kg	ND
	Hexabromodiphenyl ethers	mg/kg	ND
	Heptabromodiphenyl ethers	mg/kg	ND
	Octabromodiphenyl ethers	mg/kg	ND
	Nonabromodiphenyl ethers	mg/kg	ND
	Decabromodiphenyl ether	mg/kg	ND
	Group PBDEs	mg/kg	ND
T202009040017-067	Monobromobiphenyl ethers	mg/kg	ND
	Dibromodiphenyl ethers	mg/kg	ND
	Tribromodiphenyl ethers	mg/kg	ND
	Tetrabromodiphenyl ethers	mg/kg	ND
	Pentabromodiphenyl ethers	mg/kg	ND
	Hexabromodiphenyl ethers	mg/kg	ND
	Heptabromodiphenyl ethers	mg/kg	ND
	Octabromodiphenyl ethers	mg/kg	ND
	Nonabromodiphenyl ethers	mg/kg	ND
	Decabromodiphenyl ether	mg/kg	ND
	Group PBDEs	mg/kg	ND

Note: ND = Not Detected, less than 5mg/kg (PBDEs)

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Test Result (Continued)

Polybrominated Biphenyls (PBBs)

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Test Result	Test Method
Upper Platform, Elec. Workshop	VMS-Seameridia n-S061	Spare Cable, Cable sheath	T202009040017-061	Table 6	Refer to (10)
D-Deck, Passageway	VMS-Seameridia n-S098	Lower wall, Skirt lining	T202009040017-098		

Table 6

Sample No.	Test Item	Unit	Test Result
T202009040017-061	Monobromobiphenyls	mg/kg	ND
	Dibromobiphenyls	mg/kg	ND
	Tribromobiphenyls	mg/kg	ND
	Tetrabromobiphenyls	mg/kg	ND
	Pentabromobiphenyls	mg/kg	ND
	Hexabromobiphenyls	mg/kg	ND
	Heptabromobiphenyls	mg/kg	ND
	Octabromobiphenyls	mg/kg	ND
	Nonabromobiphenyls	mg/kg	ND
	Decabromobiphenyl	mg/kg	ND
	Group PBBs	mg/kg	ND

Note: ND = Not Detected, less than 5mg/kg (PBBs)

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Test Result (Continued)

Table 6

Sample No.	Test Item	Unit	Test Result
T202009040017-098	Monobromobiphenyls	mg/kg	ND
	Dibromobiphenyls	mg/kg	ND
	Tirbromobiphenyls	mg/kg	ND
	Tetrabromobiphenyls	mg/kg	ND
	Pentabromobiphenyls	mg/kg	ND
	Hexabromobiphenyls	mg/kg	ND
	Heptabromobiphenyls	mg/kg	ND
	Octabromobiphenyls	mg/kg	ND
	Nonabromobiphenyls	mg/kg	ND
	Decabromobiphenyl	mg/kg	ND
	Group PBBs	mg/kg	ND

Note: ND = Not Detected, less than 5mg/kg (PBBs)

SCCP

1) Tester: Chongyang.Li

2) Test Environment: Temperature 22°C; Humidity 47%RH

location	name	description	Laboratory Sample No.	Unit	Test Result	Test Method
Floor Plan, E/R Floor Deck, Wall	VMS-Seameridian-S 017	Wall, Paint Coating	T202009040017-017	mg/kg	ND	Refer to (6)
E-Deck, Open Deck, Floor	VMS-Seameridian-S 081	Floor, Paint Coating	T202009040017-081	mg/kg	ND	

Note: ND = Not Detected, less than 5mg/kg

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Applicant: Varuna Marine Services

Contact Information: Middelburgsestraat 1C, 2587 CS, The Hague, The Netherlands



Fig. 1: Representative appearance photos of the samples



Sample No.: T202009040017-001~004



Sample No.: T202009040017-005~008



Sample No.: T202009040017-009~012



Sample No.: T202009040017-013~016

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Fig. 1: Representative appearance photos of the samples(Continued)



Sample No.: T202009040017-017~020



Sample No.: T202009040017-021~024



Sample No.: T202009040017-025~028



Sample No.: T202009040017-029~032

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Fig. 1: Representative appearance photos of the samples(Continued)



Sample No.: T202009040017-033~036



Sample No.: T202009040017-037~040



Sample No.: T202009040017-041~044



Sample No.: T202009040017-045&047~049

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Fig. 1: Representative appearance photos of the samples(Continued)



Sample No.: T202009040017-051~054



Sample No.: T202009040017-055~058



Sample No.: T202009040017-059~062



Sample No.: T202009040017-063~066

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Fig. 1: Representative appearance photos of the samples(Continued)



Sample No.: T202009040017-067~068&070~071



Sample No.: T202009040017-072~075



Sample No.: T202009040017-076~079



Sample No.: T202009040017-080~082&084

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Fig. 1: Representative appearance photos of the samples(Continued)



Sample No.: T202009040017-085~088



Sample No.: T202009040017-089~092



Sample No.: T202009040017-093~096



Sample No.: T202009040017-097~100

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Fig. 1: Representative appearance photos of the samples(Continued)



Sample No.: T202009040017-101~104

.....THE END.....

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SERVICE TERMS

1. Preface

1.1 Unless otherwise agreed in writing with the customer, or there are mandatory provisions in Chinese laws and regulations, any FALAB company (hereinafter referred to as "FALAB", unless otherwise stated) or its agent and the entrusting party (hereinafter referred to as "customer") shall comply with the following service clause.

1.2 Unless FALAB has received the written requirements of the customer's contrary opinions in advance, especially in terms of service scope, report submission or testing results, the Customer hereby authorizes FALAB to deliver the test results report to the third party entrusted by the customer, which is irrevocable. Otherwise, it shall be prudent according to the conditions, and FALAB will comply with the condition, trading custom or customary rule.

1.3 FALAB will provide testing services according to the specific requirements proposed by customer.

2. Service Declaration

2.1 The technical solutions and testing services provided by FALAB are mainly based on the following specific written service requests of customers which was verified by FALAB:

2.1.1 The client shall fill the specific entrusted items in FALAB's testing application form;

2.1.2 Relevant trading custom and management, as well as the combination of FALAB and customer's specific service request, and consideration of the feasibility of technical methods and the integrity of equipment, make appropriate choices;

2.1.3 The main basis of the information source in the test report is the determined test results and specific test procedures explicitly required or recognized by the customer, or the professional evaluation based on the technical and industrial standards, trading custom, international conventions and customary rule.

2.2 Testing results and conclusions in the test report are only responsible for the tested samples involved in the report.

2.3 The test report is invalid without the signature of reviewer and approver.

2.4 FALAB has the ownership of all testing data and pictures involved in the testing services provided to customers.

2.5 The results or conclusions of the test report are issued by FALAB, which truly reflects the data and parameters expressed by the client in the testing application form. It is not responsible for any description or replacement of parameters other than facts or condition received after the report is issued.

2.6 FALAB may entrust partly or all of the testing items to the agent or other subcontractors to provide services for the customer, but it is required to indicate on the testing application form and indicate in the test report that "the testing data is provided by the subcontracting laboratory recognized by FALAB". In this regard, The customer

agrees to disclose all necessary information to the trustee or subcontractor company by FALAB.

2.7 If FALAB is required to witness by the third party, the customer shall agree that the only responsibility of the third party is present at the time of testing, report the testing result and testing process.

2.8 The Customer acknowledges that FALAB will not provide the services on behalf of the customer or any third party, or exempt them from any obligation or liability.

3. Customer's Obligations

The customer shall:

3.1 Provide sufficient information, instructions and documents in the testing application form.

3.2 Ensure that all necessary tests are carried out in a safe working condition, including the places and facilities involved in the onsite performance of the services, Ensure that all necessary tests are carried out in a safe working environment, including the places and facilities involved in the onsite performance of the services, and if necessary, follow the advice of FALAB in this regard.

3.3 Provide all possible support and help for FALAB staff to provide testing services, and take necessary measures or ways to remove relevant obstacles.

3.4 Inform FALAB in advance of known or potential hazards in sample testing (including but not limited to: whether the test sample has radiation, toxic, harmful, or explosive elements or may cause environmental pollution).

3.5 The test report issued by FALAB shall be valid after being stamped with the FALAB seal for the report. Without the permission of FALAB, the client shall not partially copy the report.

3.6 If FALAB does not receive any feedback within 15 days (including 15 days) from the date of issuing the test report, it will be deemed as the customer's acceptance of the test report.

3.7 Fully exercise its rights and obligations in the relevant sales and other contracts with third parties and in the provisions of laws.

4. Costs and Payment

4.1 The expenses incurred by FALAB and the customer when placing the order or negotiating the contract and not included in the contract shall be borne by the customer, and the customer shall borne all the expenses and taxes related to the test.

4.2 The cost of the testing service is based on the amount on the entrustment list confirmed by the customer or the actual amount of entrustment. If there is no special circumstances, the amount of the cost involved in the quotation from FALAB to the customer is the price including tax, the currency is RMB, and the unit is Yuan.

4.3 If the customer has an urgency requirement for testing service, he/she shall pay FALAB an urgency cost (50% - 100% of the testing cost), which shall be calculated separately according to the specific requirements.

4.4 FALAB will commence the specified entrust project after receiving the client's order and

samples.

4.5 Unless both parties reach a written agreement, the latest payment period of the customer is within 30 days after receiving the relevant invoice of the company, the customer shall borne the liquidated damages at the rate of 3‰ per day of the amount owed, and if more than 30 days, the liquidated damages at the rate of 1% per day.

4.6 All samples used for testing services will be retained by the company for a maximum period of 3 months or a shorter period of other allowance, and then returned to the customer or other companies. If the customer refuses to accept, FALAB has the right to dispose of these samples by itself without any responsibility, and the processing costs involved will be borne by the customer. If the customer requires to retain the samples, after the expiration of 3 months relevant storage, storage and transportation costs shall be borne by the customer.

4.7 The customer shall pay all testing expenses in due time.

4.8 FALAB has the right to take legal actions against the client in order to recover the cost of testing services, and the client shall provide relevant attorney fees and other relevant costs.

4.9 If there are other costs (including but not limited to arbitration or litigation costs) incurred by FALAB in processing the arrears, they shall be provided by the customer.

4.10 FALAB has the right to choose one of two terms below to ask the client to provide, If client requests to terminate relevant services during test after the client entrusts FALAB with testing services:

4.10.1 Pay all testing fees.

4.10.2 According to the agreed cost and the actual cost incurred during testing service.

5. Suspension or termination of services

The company has the right to suspend or terminate the provision of services immediately under the following conditions:

5.1 The customer violates the relevant obligations, and refuses to perform or incomplete the performance within 10 days after being proposed by FALAB.

5.2 The customer delays the payment, faces bankruptcy or other significant behaviors, so that it is impossible to continue to perform the contractual obligations with FALAB.

In case of any suspension or termination of services provided by FALAB due to the above reasons, FALAB can also choose either 4.4.10.1 or 4.4.10.2 to require the customer to bear the payment obligation.

6. Liability and Indemnity

6.1 Limitation of liability

6.1.1 In the process of testing service, if the testing is suspended or terminated due to restrictive factors such as testing budget or technical conditions, and the appraisal results or conclusions cannot be reached, FALAB shall not bear any responsibility.

6.1.2 FALAB, or its employees, agents and subcontractors are not responsible for the consequences caused by any factors, unclear, incomplete or misunderstanding of the customer's understanding.

6.1.3 FALAB shall not be liable for any liability not caused by the responsibilities and controllable factors.

6.1.4 Any compensation given by FALAB shall not exceed 10 times of the charge for this testing service.

6.1.5 FALAB will not compensate customers for indirect losses (including but not limited to loss of profit, profit, business loss, loss of opportunity, cost of product recovery, etc.).

6.2 In case of any customer loss caused by FALAB, the customer shall take all necessary measures or actions to reduce the loss and avoid the loss expansion as soon as possible, and shall give written notice to FALAB in time.

7. Others

7.1 If any provision of this agreement is invalid due to violation of laws, the validity of other provisions will not be affected.

7.2 Within 2 years from the date of the establishment of cooperation between the customer and FALAB, the customer shall not directly or indirectly encourage or induce any employees of FALAB to leave the company. Unless otherwise agreed in writing by FALAB, the loss caused shall be borne by the customer.

7.3 Without the written authorization of FALAB, the customer shall not change, modify or partially copy the appraisal results and conclusions of the test report.

7.4 You may not use the name or trademark of FALAB for advertising or other profit-making purposes without the written authorization of FALAB.

7.5 This terms of service may be translated into other languages, regardless of the language, the Chinese version shall prevail.

8. Applicable law, jurisdiction and dispute settlement

Unless otherwise expressly agreed, this Agreement shall be governed by the laws of the people's Republic of China. Any dispute arising from the understanding and performance of this Agreement shall be settled by both parties through consultation. If the negotiation fails, both parties agree to submit it to Shanghai Branch of China International Economic and Trade Arbitration Commission for arbitration in accordance with the arbitration rules in force at the time of applying for arbitration. The arbitration award is final and binding on both parties.