

MT SONG

TEST REPORT – IHM ANALYSIS



AES LABORATORIES PRIVATE LIMITED

May 10, 2022

SUMMARY

Parameters Tested	Lab Code No(s)/Report No(s).	Sample IDs
Polychlorinated Biphenyls (PCB)	17-030522-14,24,30,38,44,	A-110, A-082, A-107, A-092, A-047
PerfluorooctaneSulfonate (PFOS)	17-030522-49	A-042
Hexabromocyclododecane (HBCDD)	17-030522-35,37	A-095, A-093
Ozone Depleting Substances (ODS)	17-030522-37	A-093
Heavy Metals	17-030522-01,08,12,20,21,51	A-029, A-023, A-117, A-101, A-102, A-056
Polychlorinated Naphthalenes (PCN)	17-030522-51	A-056
Short Chain Chlorinated Paraffins (SCCP)	17-030522-38	A-092
Polybrominated biphenyl (PBBs)	17-030522-50	A-041
Polybrominated diphenyl ethers (PBDEs)	17-030522-50	A-041
Asbestos	17-030522-02,03,04,05,06,07,09,10,11,13,15,16,17,18,19,22,23,25,26,27,28,29,31,32,33,34,35,36,39,40,41,42,43,45,46,47,48	A-028, A-027, A-026, A-025, A-024, A-120, A-119, A-118, A-116, A-114, A-113, A-111, A-112, A-109, A-108, A-085, A-100, A-081, A-080, A-075, A-099, A-077, A-106, A-097, A-098, A-096, A-095, A-094, A-091, A-090, A-089, A-049, A-048, A-046, A-044, A-045, A-043

Vessel Details

Name of Ship	MT SONG
Flag of Registry	ST. KITTS & NEVIS
Tonnage:	80086
Year of Construction	2000

Other Details

Sampled By:	Dileep Pandey
Sampled on:	26.04.22
Samples received in lab on:	03.05.22
Analysis date:	03.05.22 to 10.05.22
Date of Reporting:	10.05.22
Number of pages:	15

CERTIFICATE OF ANALYSIS

Client/Customer	Solution Overall For Shipping (SOS) India Private Limited, Ground Floor, Shop No.-46, Aggarwal Trade Centre, Plot No.- 62, Sector-11, CBD Bela, Navi Mumbai, Mumbai City, Maharashtra- 400614.
Report Nos.	17-030522-(01-51)
Sample Received	03.05.22
Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

Polychlorinated Biphenyls (PCB)

Test Method: USEPA 8082A/GCMS

Parameter	Units	LOQ	Results				
			Lab Code No./Sample Code/Description				
			17-030522-14 A-110	17-030522-24 A-082	17-030522-30 A-107	17-030522-38 A-092	17-030522-44 A-047
			2nd Deck, Engine Room, Store room, Cooler, Gasket/Packing , Rubber	Nav. Deck, Wheel House, Floor, Vinyl Sheet	Nav. Deck, Wheel House, Bridge Sliding Door, Packing	Upper Deck AFT, Cold Chamber (Veg/Fish), Room, Caulking	Upper Deck AFT, Emer. Gen Rm, DO Tank Manhole, Packing
Aroclors							
Aroclor 1016	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
Aroclor 1221	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
Aroclor 1232	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
Aroclor 1242	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
Aroclor 1248	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
Aroclor 1254	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
Aroclor 1260	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
Congeners							
2-Chlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,3-Dichlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',5-Trichlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,4',5-Trichlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',3,5'-Tetrachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',5,5'-Tetrachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,3',4,4'-Tetrachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',3,4,5'-Pentachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',4,5,5'-Pentachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,3,3',4',6-Pentachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',3,4,4',5'-Hexachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',3,4,5,5'-Hexachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',3,5,5',6'-Hexachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',4,4',5,5'-Hexachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',3,3',4,4',5-Heptachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',3,4,4',5,5'-Heptachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',3,4,4',5,6-Heptachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',3,4',5,5',6-Heptachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ
Sum of PCBs	mg/kg	0.5	BLQ	BLQ	BLQ	BLQ	BLQ

LOQ means Limit of Quantification
BLQ means Below Limit of Quantification

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AES/QCD/F-7.8-I

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Client/Customer	Solution Overall For Shipping (SOS) India Private Limited, Ground Floor, Shop No.-46, Aggarwal Trade Centre, Plot No.- 62, Sector-11, CBD Bela, Navi Mumbai, Mumbai City, Maharashtra- 400614.
Report Nos.	17-030522-(01-51)
Sample Received	03.05.22
Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

PerfluorooctaneSulfonate (PFOS)

Test Method: CEN/TS 15968:2010 (LCMSMS)

Lab Code No.	Sample Code	Sample Description	Parameter	Units	LOQ	Results
17-030522-49	A-042	Upper Deck AFT, Foam & Fire Control Room, Foam Tank, Foaming Agent	Perfluorooctanesulfonate (PFOS)	mg/Kg	0.0125	BLQ

LOQ means Limit of Quantification
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Report Nos.	17-030522-(01-51)
Sample Received	03.05.22
Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

Brominated flame retardants (BFRs)

Hexabromocyclododecane (HBCDD)

Test Method: AES/RES/SOP 45.0 (LCMSMS)

Lab Code No.	Sample Code	Sample Description	Parameter	Units	LOQ	Results
17-030522-35	A-095	A Deck, Galley, Sub-Floor, Cement	Hexabromocyclododecane (HBCDD)	mg/Kg	1.0	BLQ
17-030522-37	A-093	Upper Deck AFT, Cold Chamber (Veg/Fish), Room, Insulation	Hexabromocyclododecane (HBCDD)	mg/Kg	1.0	BLQ

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Sample Marking/Name of Ship	MT SONG

Ozone Depleting Substances (ODS)

Test Method: USEPA 5021A/8260C (GCMS-HS)

Parameter	Units	LOQ	Results
			Lab Code No./Sample Code/Description
			17-030522-37
			A-093
			Upper Deck AFT, Cold Chamber (Veg/Fish), Room, Insulation
Trifluoromethane	mg/kg	1.0	BLQ
Chloroethane	mg/kg	1.0	BLQ
Chloromethane	mg/kg	1.0	BLQ
Chlorodifluoroethane	mg/kg	1.0	BLQ
Chlorotrifluoromethane	mg/kg	1.0	BLQ
Chloropentafluoroethane	mg/kg	1.0	BLQ
Chlorodifluoromethane	mg/kg	1.0	BLQ
Difluoroethane	mg/kg	1.0	BLQ
Dichlorofluoromethane	mg/kg	1.0	BLQ
Dichlorodifluoromethane	mg/kg	1.0	BLQ
Dichlorotetrafluoroethane	mg/kg	1.0	BLQ
Bromotrifluoromethane	mg/kg	1.0	BLQ
Trichlorotrifluoroethane	mg/kg	1.0	BLQ
Trichlorofluoromethane	mg/kg	1.0	BLQ
Trifluoromethane	mg/kg	1.0	BLQ

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Report Nos.	17-030522-(01-51)
Sample Received	03.05.22
Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

Heavy Metals

Test Method: Microwave assisted acid digestion with ICP-OES (USEPA 3052 & 6010C);
Spectrophotometer (USEPA 3060A & 7196A)

Parameter	Units	LOQ	Results			
			Lab Code No./Sample Code/Description			
			17-030522-01	17-030522-08	17-030522-12	17-030522-20
			A-029	A-023	A-117	A-101
			Upper Deck AFT, Floor, Deck, Floor paint, Layer	3rd Deck, Engine room, Floor, Floor paint, Paint	2nd Deck, Engine Room, Wall, Paint	Nav. Deck, Bridge Wing (P), Floor, Paint
Cadmium & Cadmium compounds (as Cd)	mg/kg	5.0	Not Tested	Not Tested	Not Tested	Not Tested
Hexavalent Chromium & Hexavalent Chromium compounds (as Cr ⁶)	mg/kg	1.0	Not Tested	Not Tested	Not Tested	Not Tested
Lead & Lead compounds (as Pb)	mg/kg	5.0	302.85	297.86	348.49	372.78
Mercury and Mercury (as Hg)	mg/kg	2.0	BLQ	BLQ	BLQ	BLQ

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Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

Heavy Metals

Test Method: Microwave assisted acid digestion with ICP-OES (USEPA 3052 & 6010C); (USEPA 3060A & 7196A)

Parameter	Units	LOQ	Results	
			Lab Code No./Sample Code/Description	
			17-030522-21	17-030522-51
			A-102	A-056
			Nav. Deck, Bridge Wing (P), Wall, Paint	2nd Deck, 2nd deck engine room, Economiser, High temperature paint
Cadmium & Cadmium compounds (as Cd)	mg/kg	5.0	Not Tested	BLQ
Hexavalent Chromium & Hexavalent Chromium compounds (as Cr ⁶)	mg/kg	1.0	Not Tested	BLQ
Lead & Lead compounds (as Pb)	mg/kg	5.0	306.70	369.87
Mercury and Mercury (as Hg)	mg/kg	2.0	BLQ	BLQ

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Report Nos.	17-030522-(01-51)
Sample Received	03.05.22
Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

Polychlorinated Naphthalenes

Test Method: US EPA 8270D (GCMS)

Parameter	Units	LOQ	Results
			Lab Code No./Sample Code/Description
			17-030522-51
			A-056
			2nd Deck, 2nd deck engine room, Economiser, High temperature paint
1,2,3,4-Tetrachloronaphthalene	mg/kg	0.05	BLQ
Octachloronaphthalene	mg/kg	0.05	BLQ

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Report Nos.	17-030522-(01-51)
Sample Received	03.05.22
Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

Short Chain Chlorinated Paraffins (C10-13)

Test Method: US EPA 8270D (GCMSMS)

Lab Code No.	Sample Code	Sample Description	Parameter	Units	LOQ	Results
17-030522-38	A-092	Upper Deck AFT, Cold Chamber (Veg/Fish), Room, Caulking	Chlorinated paraffin (C10-13) 55.5% Cl	mg/Kg	2.0	BLQ

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Report Nos.	17-030522-(01-51)
Sample Received	03.05.22
Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

Polybrominated biphenyl (PBBs)

Test Method: IEC 62321-6:2015 (GCMS)

Parameter	Units	LOQ	Results
			Lab Code No./Sample Code/Description
			17-030522-50
			A-041
			3rd Deck, Engine Room, 2nd deck, Air conditioning plant, Compressor pipe insulation
PBB No.1	mg/kg	0.05	BLQ
PBB No.2	mg/kg	0.05	BLQ
PBB No.3	mg/kg	0.05	BLQ
PBB No.4	mg/kg	0.05	BLQ
PBB No.7	mg/kg	0.05	BLQ
PBB No.9	mg/kg	0.05	BLQ
PBB No.10	mg/kg	0.05	BLQ
PBB No.15	mg/kg	0.05	BLQ
PBB No.18	mg/kg	0.05	BLQ
PBB No.26	mg/kg	0.05	BLQ
PBB No.29	mg/kg	0.05	BLQ
PBB No.30	mg/kg	0.05	BLQ
PBB No.31	mg/kg	0.05	BLQ
PBB No.38	mg/kg	0.05	BLQ
PBB No.49	mg/kg	0.05	BLQ
PBB No.52	mg/kg	0.05	BLQ
PBB No.53	mg/kg	0.05	BLQ
PBB No.80	mg/kg	0.05	BLQ
PBB No.101	mg/kg	0.05	BLQ
PBB No.103	mg/kg	0.05	BLQ
PBB No.153	mg/kg	0.05	BLQ
PBB No.155	mg/kg	0.05	BLQ
PBB No.209	mg/kg	0.05	BLQ

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Sample Received	03.05.22
Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

Polybrominated diphenyl ethers (PBDEs)

Test Method: IEC 62321-6:2015 (GCMS)

Parameter	Units	LOQ	Results
			Lab Code No./Sample Code/Description
			17-030522-50
			A-041
			3rd Deck, Engine Room, 2nd deck, Air conditioning plant, Compressor pipe insulation
Tribromodiphenyl ether	mg/kg	1.0	BLQ
Tetrabromodiphenyl ether	mg/kg	1.0	BLQ
Pentabromodiphenyl ether	mg/kg	1.0	BLQ
Pentabromodiphenyl ether	mg/kg	1.0	BLQ
Pentabromodiphenyl ether	mg/kg	1.0	BLQ
Hexabromodiphenyl ether	mg/kg	1.0	BLQ
Hexabromodiphenyl ether	mg/kg	1.0	BLQ
Heptabromodiphenyl ether	mg/kg	1.0	BLQ
Octabromodiphenyl ether	mg/kg	1.0	BLQ
Nonabromodiphenyl ether	mg/kg	1.0	BLQ
Decabromodiphenyl ether	mg/kg	1.0	BLQ

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Report Nos.	17-030522-(01-51)
Sample Received	03.05.22
Sample Description	Bulk Sample
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Asbestos

Test Method: ISO 22262-1:2012/ISO 22262-2:2014/NIOSH 9002(Polarized Light Microscopy (PLM), With Dispersion Staining)

Lab Code No	Sample Code	Sample Description		LOQ	Asbestos content approx. (% by mass)
17-030522-02	A-028	3rd Deck, Generator	DG no.1, lube oil, Cooler Outlet Pipe Flange, Gasket	0.1 %	5% - 50%
17-030522-03	A-027	3rd Deck, Generator	Turbocharger, Insulation	0.1 %	BLQ
17-030522-04	A-026	3rd Deck, WE Heater	Thermal, Insulation	0.1 %	BLQ
17-030522-05	A-025	3rd Deck, Main Engine	Exhaust Gas Pipe, Insulation	0.1 %	BLQ
17-030522-06	A-024	3rd Deck, Main Engine	Main Engine Cylinder Oil Inlet, Unit No. 4, Pipe Flange Gasket	0.1 %	5% - 50%
17-030522-07	A-120	3rd Deck, Main Air Compressor	Cover Gasket, Cover Gasket	0.1 %	5% - 50%
17-030522-09	A-119	3rd Deck, FW Generator	Cover Gasket, Cover Gasket	0.1 %	BLQ
17-030522-10	A-118	2nd Deck, Aux. Boiler	Body, Insulation	0.1 %	BLQ
17-030522-11	A-116	2nd Deck, Engine Control Room	Ceiling/Wall Panel, Insulation	0.1 %	BLQ
17-030522-13	A-114	2nd Deck, Engine Control Room	Electrical Cable, Cable Penetration	0.1 %	BLQ
17-030522-15	A-113	2nd Deck, Engineer's Workshop & Store	Spare Gasket, Spare G.P.	0.1 %	5% - 50%
17-030522-16	A-111	2nd Deck, Engineer's Workshop & Store	Spare Gasket, Spare Gasket	0.1 %	BLQ
17-030522-17	A-112	2nd Deck, Engineer's Workshop & Store	Spare Gasket, Spare Steam Gasket	0.1 %	50% - 100%
17-030522-18	A-109	2nd Deck, Engineer's Workshop & Store	Spare Gland Packing, Spare Gland Packing	0.1 %	BLQ

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AES/QCD/F-7.8-I

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Report Nos.	17-030522-(01-51)
Sample Received	03.05.22
Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

Asbestos

Test Method: ISO 22262-1:2012/ISO 22262-2:2014/NIOSH 9002(Polarized Light Microscopy (PLM), With Dispersion Staining)

Lab Code No	Sample Code	Sample Description		LOQ	Asbestos content approx. (% by mass)
17-030522-19	A-108	2nd Deck, Engine Room	Wall, Insulation	0.1 %	BLQ
17-030522-22	A-085	Nav. Deck, Wheel House	Ceiling Panel, Insulation	0.1 %	BLQ
17-030522-23	A-100	Nav. Deck, Wheel House	Wall Panel, Insulation	0.1 %	BLQ
17-030522-25	A-081	Nav. Deck, Wheel House	Wall, Insulation	0.1 %	BLQ
17-030522-26	A-080	Nav. Deck, Pub. Toilet	Sub-Floor, Cement	0.1 %	BLQ
17-030522-27	A-075	Nav. Deck, Wheel House	Ceiling, Insulation	0.1 %	BLQ
17-030522-28	A-099	Nav. Deck, Wheel House	A-0 Door, Insulation	0.1 %	BLQ
17-030522-29	A-077	Nav. Deck, Wheel House	Sub-Floor, Concrete/Cement	0.1 %	BLQ
17-030522-31	A-106	Nav. Deck, Wheel House	F.W. Piping insulation- Woven material, Insulation	0.1 %	BLQ
17-030522-32	A-097	B Deck, Off. Laun.	Floor, Mosaic Tile	0.1 %	BLQ
17-030522-33	A-098	B Deck, Off. Laun.	Floor, Concrete/Cement	0.1 %	BLQ
17-030522-34	A-096	A Deck, Galley	Floor, Quarry Tile	0.1 %	BLQ
17-030522-35	A-095	A Deck, Galley	Sub-Floor, Cement	0.1 %	BLQ
17-030522-36	A-094	A Deck, Galley	Fire Blanket, Fire Blanket	0.1 %	BLQ
17-030522-39	A-091	Upper Deck AFT, Mooring Winch	Winch, Brake Lining	0.1 %	BLQ

LOQ means Limit of Quantification

BLQ means Below Limit of Quantification

Authorised Signatory

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Terms and conditions

AES/QCD/F-7.8-I

- ❖ The Results indicates only refer to the tested samples and listed parameters and do not endorse any product.
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- ❖ This certificate shall not be reproduced wholly or impart without prior written consent of the laboratory.
- ❖ Samples received shall be destroyed after four weeks from the date of issue of the certificate unless specified otherwise.
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CERTIFICATE OF ANALYSIS

Client/Customer	Solution Overall For Shipping (SOS) India Private Limited, Ground Floor, Shop No.-46, Aggarwal Trade Centre, Plot No.- 62, Sector-11, CBD Bela, Navi Mumbai, Mumbai City, Maharashtra- 400614.
Report Nos.	17-030522-(01-51)
Sample Received	03.05.22
Sample Description	Bulk Sample
Sample Marking/Name of Ship	MT SONG

Asbestos

Test Method: ISO 22262-1:2012/ISO 22262-2:2014/NIOSH 9002(Polarized Light Microscopy (PLM), With Dispersion Staining)

Lab Code No	Sample Code	Sample Description		LOQ	Asbestos content approx. (% by mass)
17-030522-40	A-090	B Deck, CO2 Room	Ceiling, Insulation	0.1 %	BLQ
17-030522-41	A-089	Upper Deck AFT, Air Con. Rm	Steam Pipe, Insulation	0.1 %	BLQ
17-030522-42	A-049	Upper Deck AFT, Air Con. Rm	Air Duct, Insulation	0.1 %	BLQ
17-030522-43	A-048	Upper Deck AFT, Emer. Gen	Exhaust Gas Pipe, Insulation	0.1 %	BLQ
17-030522-45	A-046	Upper Deck FWD, Windlass	Windlass, Brake Lining	0.1 %	BLQ
17-030522-46	A-044	Upper Deck FWD, Mooring Winch, Upper deck fwd side winch	Side mooring winch, Brake Lining	0.1 %	BLQ
17-030522-47	A-045	Upper Deck MIDDLE, Deck	PV breaker, Piping Gasket	0.1 %	BLQ
17-030522-48	A-043	Upper Deck MIDDLE, Deck	Cargo Pipe, Piping Gasket	0.1 %	BLQ

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