

REPORT ON OIL ENGINE MACHINERY

No.

2325

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Reporting Report	19	When handed in at Local Office	OCT. - 8. 1954	Port of	K O B E											
Survey held at	Aioi, Japan	Date, First Survey	16-12-52	Last Survey	24-6-1954											
		Number of Visits	100													
on the XXXX Single Screw vessel	M/V "ISE-MARU"			Tons	Gross 13,220.70 Net 9,350.81											
at XXXX Aioi, Japan	By whom built	Harima Shipbuilding & Engineering Co., Ltd.,	Yard No.	481	When built	July, 54										
at XXXX Aioi, Japan	By whom made	Harima Shipbuilding & Engineering Co., Ltd.,	Engine No.	119	When made	July, 54										
at XXXX Aioi, Japan	By whom made	Harima Shipbuilding & Engineering Co., Ltd.,	Boiler No.	771	When made	July, 54										
Power	9500 ✓	Owners	Terukuni Kaiun K.K.	Port belonging to	Tokyo											
as per Rule	1900 ✓	Is Refrigerating Machinery fitted for cargo purposes	No	Is Electric Light fitted	Yes											
which vessel is intended	Ocean Going (Carrying Oil in Bulk)															
GINES, &c. — Type of Engines	Harima Sulzer 10RS76	2 or 4 stroke cycle	2 ✓	Single or double acting	Single ✓											
Pressure in cylinders	52.0 kg/cm ² ✓	Diameter of cylinders	760 mm ✓	Length of stroke	1,550 mm ✓	No. of cylinders	10 ✓	No. of cranks	10							
ed Pressure	6.13 kg/cm ² ✓	Ahead Firing Order in Cylinders	1-8-5-4-9-2-7-6-3-10	Span of bearings, adjacent to the crank, measured edge to inner edge	1,010 mm ✓	Is there a bearing between each crank	Yes	Revolutions per minute	118 ✓							
2,396.3 mm	Weight	1,520 kgs	Moment of inertia of flywheel	(XXXX Kg. cm ²)	2.28 x 10 ⁷	Means of ignition	Compression	Kind of fuel used	Diesel Oil							
XXXX dia. of journals	as per Rule	As Approved	as fitted	550 mm ✓	Crank pin dia	550 mm ✓	Crank webs	Mid. length breadth	900 mm	Thickness parallel to axis	340 mm					
XXXX rt built shaft, diameter	as per Rule	-	as fitted	-	Intermediate Shaft, diameter	as per Rule	As Approved	as fitted	550 mm ✓	Thrust Shaft, diameter at collars	as fitted	As Approved				
XXXX , diameter	as per Rule	-	as fitted	-	Screw Shaft, diameter	as per Rule	As Approved	as fitted	498 mm	Is the {xx} shaft fitted with a continuous liner	{xx} {screw}	Yes ✓				
ers, thickness in way of bushes	as per Rule	As Approved	as fitted	25 mm	Thickness between bushes	as per Rule	475 mm	Is the after end of the liner made watertight in the	Yes	If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner	-					
does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-	-	If two liners are fitted, is the shaft lapped or protected between the liners	-	Is an approved Oil Gland or other appliance fitted at the after	-	Length of bearing in Stern Bush next to and supporting propeller	3,000 mm ✓	Material	Manganese Bronze	whether moveable	Moveable	Total developed surface	123.7 sq. feet			
dia.	5,900 mm ✓	Pitch	4,304.5 mm	No. of blades	4	Kind of damper, if fitted	-	reversing Engines	Direct	Is a governor or other arrangement fitted to prevent racing of the engine	XXXXXXX	Yes ✓	Means of			
dia.	1.243 x 10 ³	Kind of damper, if fitted	-	roed	Thickness of cylinder liners	45 mm	Are the cylinders fitted with safety valves	Yes ✓	Are the exhaust pipes and silencers water cooled	Yes ✓	non-conducting material	Lagged	If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned	independent		
ine	-	Cooling Water Pumps, No.	2-S.W.	Is the sea suction provided with an efficient strainer which can be cleared within the vessel	Yes ✓	s worked from the Main Engines, No.	1	Diameter	125 mm	Stroke	150 mm	Can one be overhauled while the other is at work	Yes			
ected to the Main Bilge Line	{ No. and size	1-180 M ³ /H,	1-100 M ³ /H,	1-15 M ³ /H x 2,	How driven	Steam	Steam	Main Engine	water led to the bilges	No ✓	If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping	-				
ps, No. and size	1 x 180 M ³ /H ✓	Power Driven Lubricating Oil Pumps, including spare pump, No. and size	✓ 3 x 190 M ³ /H	ndent means arranged for circulating water through the Oil Cooler	Yes ✓	Suctions, connected to both main bilge pumps and auxiliary	Cofferdam	In pump room	1-3½", 2-3", ✓							
o. and size:— In machinery spaces	4-4", 1-2½", In Engine Room	3-2" In Eng.	✓	In pump room	1-3½", 2-3", ✓	Power Pump Direct Suctions to the engine room bilges, No. and size	1-10" ✓, 1-6" ✓, 1-4" ✓	ilge suction pipes in holds and XXXXXX fitted with strum-boxes	Yes ✓	Are the bilge suction pipes in the machinery spaces led from easily	Yes ✓	oxes, placed above the level of the working floor, with straight tail pipes to the bilges	Yes ✓			
connections fitted direct on the skin of the Ship	Yes ✓	Are they fitted with valves or cocks	Both ✓	Are they fixed	on the ship's side to be seen without lifting the platform plates	Yes ✓	Are the overboard discharges above or below the deep water line	Both ✓	fitted with a discharge valve always accessible on the plating of the vessel	Yes ✓	Are the blow off cocks fitted with a spigot and brasscovering plate	Yes ✓	s through the bunkers	Ballast water pipe	How are they protected	Remote control valve fitted as per rule
through the deep tanks	-	Have they been tested as per Rule	-	cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times	Yes ✓	ment of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery	one compartment to another	Yes ✓	Is the shaft tunnel watertight	None ✓	Is it fitted with a watertight door	-	worked from	-		
el, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork	-	compressors, No.	-	No. of stages	-	diameters	-	stroke	-	driven by	-					
el 16, 4	Compressors, No.	2 ✓	No. of stages	2	diameters	190, 190-170 mm	stroke	150 mm	driven by	Diesel						
ary Air Compressors, No.	1	No. of stages	2	diameters	80, 80-70 mm	stroke	70 mm	driven by	Diesel							
is made for first charging the air receivers	Small Auxiliary Air Compressor	manual driven														
234, 11	air Pumps, No.	10	diameter	670 mm	stroke	1,550 mm	driven by	Main Engine								
Total No. of	gines crank shafts, diameter	as per Rule	As Approved	as fitted	JOURNAL 200 mm	CRANK PIN 185 mm	Position	Fore port side	Starboard side	in engine room						
ry engines been constructed under special survey	Yes	Is a report sent herewith	Yes													

