

REPORT ON OIL ENGINE MACHINERY.

No. 50.

Received at London Office

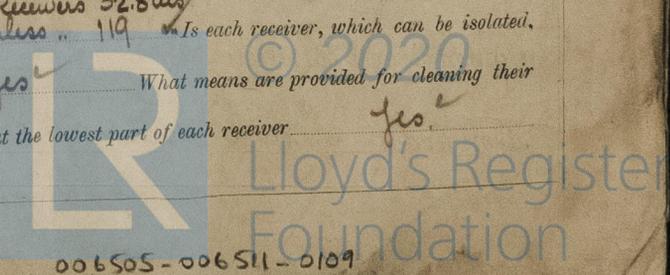
Surveying Report 28th July 1924 When handed in at Local Office 28th July 1924 Port of Winterthur.
 Survey held at Winterthur Date, First Survey 3rd April, 1923 Last Survey 26th July 1924
 Number of Visits

on the ^{Single} ~~Twin~~ ~~Triple~~ Screw vessels "ATAGO MARU." Tons { Gross 7559 Net 4670
 Built at Port Glasgow By whom built Messrs. Lithgows Yard No. 462 When built 1924.
 made at Winterthur By whom made Messrs. Sulzer, Bros. Engine No. 5165 When made 1924.
 Boilers made at By whom made Boiler No. When made
 Horse Power 4000 (Two Eng.) Owners Nippon Yusen Kaisha Port belonging to Tokio
 Horse Power as per Rule 985 (Two Eng.) Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted.

ENGINES, &c. Type of Engines Sulzer Diesel Engines 2 or 4 stroke cycle 2 Single or double acting single
 pressure in cylinders 38 ats. No. of cylinders 4 each Eng. No. of cranks 4 each Eng. Diameter of cylinders 680 mm.
 stroke 1200 mm Revolutions per minute 100 Means of ignition Temperature due to compression Kind of fuel used Heavy fuel oil.
 bearing between each crank Yes Span of bearings (Page 93, Section 2, par. 7 of Rules) 880 mm.
 between centres of main bearings 1350 mm Is a flywheel fitted Yes Diameter of crank shaft journals as per Rule 425 mm.
 crank pins 460 mm Breadth of crank webs as per Rule 565 mm as fitted 620 mm Thickness of ditto as per Rule 238 mm as fitted 255 mm
 flywheel shaft as per Rule 425 mm Diameter of tunnel shaft as per Rule 314 mm Diameter of thrust shaft as per Rule 330 mm as fitted 460 mm
 screw shaft as per Rule Is the screw shaft fitted with a continuous liner the whole length of the stern tube
 end of the liner made watertight in the propeller boss If the liner is in more than one length are the joints burned
 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-corrosive
 s are fitted, is the shaft lapped or protected between the liners If without liners, is the shaft arranged to run in oil
 or gland fitted to stern tube Length of stern bush Diameter of propeller
 peller No. of blades state whether moveable Total surface square feet
 versing direct Is a governor or other arrangement fitted to prevent racing of the engine when decked Yes Thickness of cylinder liners 50 mm
 iders fitted with safety valves Yes Means of lubrication forced Are the exhaust pipes and silencers water cooled or lagged with
 ng material Yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine Exhaust
 unnel above deck. No. of cooling water pumps 2 electric driven centrifugal pumps. Is the sea suction provided with an efficient strainer which can be cleared
 ssel No. of bilge pumps fitted to the main engines 2 double acting Diameter of ditto 180 mm Stroke 140 mm
 verhailed while the other is at work Yes No. of auxiliary pumps connected to the main bilge lines How driven
 ps No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps:—In engine room
 , etc. No. of ballast pumps How driven Sizes of pumps
 t pump fitted with a direct suction from the engine room bilges State size Is a separate auxiliary pump suction fitted in
 a and size Are all the bilge suction pipes fitted with roses Are the roses in Engine Room always accessible
 es on Engine Room bulkheads always accessible Are all connections with the sea direct on the skin of the ship
 ves or cocks Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates
 arge pipes above or below the deep water line Are they each fitted with a discharge valve always accessible on the plating of the vessel
 , cocks, valves and pumps in connection with the machinery accessible at all times Are the bilge suction pipes, cocks and valves arranged so as to prevent any
 m between the sea and the bilges Is the screw shaft tunnel watertight Is it fitted with a watertight door

If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork
 air compressors 2 (1 each Eng) No. of stages 3 Diameters 720/650/150 Stroke 600 mm Driven by main shaft
 ary air compressors 2 No. of stages 3 Diameters 190/120/55 Stroke 180 " Driven by Electric Motors
 auxiliary air compressors 1 No. of stages 2 Diameters 2 x 110/35 Stroke 120 " Driven by Steam Engine
 ing air pumps Two Turbo Blowers each Diameter capable of discharging 540 cub. metres of free air per minute Driven by Electric motor.
 auxiliary Diesel Engine crank shafts as per Rule 153 mm as fitted 175 " Are the air compressors and their coolers made so as to be easy of access Yes

RECEIVERS:—No of high pressure air receivers 2 Internal diameter 300 mm Cubic capacity of each 150 LITRES.
 m. S. M. steel Seamless, lap welded or riveted longitudinal joint seamless Range of tensile strength 50 To 60 Kg. per mm²
 15 mm working pressure by Rules 96.4 ats. No. of starting air receivers 2 BUILT L.P. 8 SEAMLESS H.P. Internal diameter SEAMLESS 540 mm
 capacity 2 BUILT RECEIVERS 10,000 LITRES Seamless, lap welded or riveted longitudinal joint 2 BUILT RECEIVERS 32.8 ats. 2 BUILT WELDED RECEIVERS SEAMLESS
 ile strength Seamless 50 To 60 " thickness Seamless 25 Working pressure by rules Seamless 119 " Is each receiver, which can be isolated.
 safety valve as per Rule Yes Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their
 es Built receivers manholes 400 x 300 mm diameter Is there a drain arrangement fitted at the lowest part of each receiver Yes
 Seamless " " 270 " diameter



006505-006511-0109

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

HYDRAULIC TESTS:-

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS
ENGINE CYLINDERS	13-7-23, 16-7-23, 28-8-23, 8-8-23, 10-8-23	35 ATS.	75 ATS.	R	Test satisfactory
" COVERS	13-7-23, 16-7-23, 28-8-23, 8-8-23, 10-8-23	-do-	-do-	R	-do-
" JACKETS	8-2-24, 29-2-24, 3-3-24.	1 "	3 "	R	-do-
" PISTON WATER PASSAGES	19-7-23, 24-7-23, 24-7-23, 26-7-23, 8-8-23 13-8-23, 14-8-23, 22-11-23, 8-1-24, 4-3-24. 14-8-23, 5-10-23, 19-12-23.	2 "	6 "	R	-do-
MAIN COMPRESSORS—1st STAGE	6-8-23, 8-8-23, 9-8-23, 4-9-23, 12-9-23, 24-9-23	3 "	35 "	R	-do-
" 2nd "	-do do do do 14-9-23 do	17.5 "	35 "	R	-do-
" 3rd "	8-8-23, 9-8-23 do do do	70 "	140 "	R	-do-
AIR RECEIVERS—STARTING BUILT L.P. SEAMLESS H.P. AND HEADS	14-3-24 25-8-20, 2-9-20, 11-9-20,	30 "	45 "	R	-do-
" INJECTION AND HEADS	15-7-20, 25-9-23. 25-9-23, 24-10-23.	70 "	150 "	R	-do-
AUTOMATIC STARTING AIR VALVES	1-11-23, 2-11-23, 3-11-23, 12-11-23, 26-11-23.	300 "	140 "	R	-do-
AIR PIPES AND FUEL PIPES	28-11-23, 29-11-23, 4-1-24.	70 "	140 "	R	-do-
FUEL PIPES REDUCING AIR VALVE	1-2-24. 13-9-23.	10+30 "	140 "	R	-do-
ADVANCE STARTING AIR VALVES	8-6-23, 11-6-23.	300 "	140 "	R	-do-
FUEL PUMPS	3-8-23, 6-8-23, 8-8-23, 11-9-23, 16-11-23.	400 "	140 "	R	-do-
" VALVES	26-11-23, 4-12-23.	0.02 "	3.5 "	R	-do-
SILENCERS	6-8-23, 9-8-23, 26-9-23.	0.02 "	3 "	R	-do-
EXHAUST PIPES	-do-	1 "	3 "	R	-do-
" WATER JACKET					
SEPARATE FUEL TANKS					

PLANS. Are approved plans forwarded herewith for shafting 22-7-20
(If not, state date of approval)

SPARE GEAR See list attached to report.

INJECTION SEAMLESS 7-6-20.
Receivers STARTING " 25-5-20 Separate Tanks
" BUILT 14-9-23.

The foregoing is a correct description

Switzer Brothers Limited
Manufacturers.

Dates of Survey while building
 During progress of work in shops: 3-11-23, 9-11-23, 16-11-23, 23-11-23, 7-12-23, 14-12-23, 8-6-23, 11-6-23, 27-6-23, 4-7-23, 13-7-23, 16-7-23, 19-7-23, 23-7-23, 24-7-23, 25-7-23, 26-7-23, 27-7-23, 28-7-23, 30-7-23, 31-7-23, 1-8-23, 2-8-23, 3-8-23, 4-8-23, 5-8-23, 6-8-23, 7-8-23, 8-8-23, 9-8-23, 10-8-23, 11-8-23, 12-8-23, 13-8-23, 14-8-23, 15-8-23, 16-8-23, 17-8-23, 18-8-23, 19-8-23, 20-8-23, 21-8-23, 22-8-23, 23-8-23, 24-8-23, 25-8-23, 26-8-23, 27-8-23, 28-8-23, 29-8-23, 30-8-23, 31-8-23, 1-9-23, 2-9-23, 3-9-23, 4-9-23, 5-9-23, 6-9-23, 7-9-23, 8-9-23, 9-9-23, 10-9-23, 11-9-23, 12-9-23, 13-9-23, 14-9-23, 15-9-23, 16-9-23, 17-9-23, 18-9-23, 19-9-23, 20-9-23, 21-9-23, 22-9-23, 23-9-23, 24-9-23, 25-9-23, 26-9-23, 27-9-23, 28-9-23, 29-9-23, 30-9-23, 1-10-23, 2-10-23, 3-10-23, 4-10-23, 5-10-23, 6-10-23, 7-10-23, 8-10-23, 9-10-23, 10-10-23, 11-10-23, 12-10-23, 13-10-23, 14-10-23, 15-10-23, 16-10-23, 17-10-23, 18-10-23, 19-10-23, 20-10-23, 21-10-23, 22-10-23, 23-10-23, 24-10-23, 25-10-23, 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