

REPORT ON OIL ENGINE MACHINERY.

No. 50.

Received at London Office

Writing Report

28th July 1924 When handed in at Local Office28th 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 ^{Screw vessels} Triple

"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 as fitted 460 mm Diameter of tunnel shaft as per Rule 314 mm as fitted 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

r 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 decelerated 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

essel No. of bilge pumps fitted to the main engines 2 double acting Diameter of ditto 180 mm Stroke 140 mm

verhauled while the other is at work yes No. of auxiliary pumps connected to the main bilge lines How driven

ps No. and sizes of suction 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

aging air pumps Two Turbo Blowers each Diameter capable of discharging 540 cu. 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

INJECTION 2 Internal diameter 300 mm Cubic capacity of each 150 LITRES.

CEIVERS:—No. of high pressure air receivers 2 Seamless, lap welded or riveted longitudinal joint Seamless Range of tensile strength 50 To 60 Kg. per mm²

m. S. M. steel 15 mm working pressure by Rules 96.4 ats. No. of starting air receivers 2 BUILT. L.P. 8 SEAMLESS H.P. Internal diameter 540 mm

capacity 2 BUILT RECEIVERS 10,000 LITRES Seamless, lap welded or riveted longitudinal joint 2 BUILT welded receivers

ile strength Seamless 50 To 50 Kg per mm² Built receivers 22 mm 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 Is there a drain arrangement fitted at the lowest part of each receiver yes

Seamless " " 270 " diameter

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 "	N	-do-
" PISTON WATER PASSAGES	19-7-23, 24-7-23, 24-7-23, 26-7-23, 8-8-23	2 "	6 "	N	-do-
MAIN COMPRESSORS—1st STAGE	13-8-23, 14-8-23, 22-11-23, 8-1-24, 4-3-24.	3 "	35 "	N	-do-
" 2nd "	6-8-23, 8-8-23, 8-23, 4-9-23, 12-9-23, 24-9-23	17.5 "	35 "	N	-do-
" 3rd "	-do- do- do- do- 14-9-23 -do-	70 "	140 "	N	-do-
AIR RECEIVERS—STARTING BUILT L.P.	14-3-24	30 "	45 "	N	-do-
SEAMLESS H.P. AND HEADS 25-8-20, 2-9-20, 11-9-20,		70 "	150 "	N	-do-
INJECTION AND HEADS...	15-7-20, 25-9-23.	70 "	140 "	N	-do-
AUTOMATIC STARTING AIR VALVES.	25-9-23, 24-10-23.	70 "	140 "	N	-do-
AIR PIPES AND FUEL PIPES.	1-11-23, 2-11-23, 3-11-23, 12-11-23, 26-11-23.	70 "	140 "	N	-do-
FUEL PIPES REDUCING AIR VALVE.	28-11-23, 29-11-23, 4-1-24.	10+30	140 "	N	-do-
ADVANCE STARTING AIR VALVES.	1-2-24.	300 "	100 "	N	-do-
FUEL PUMPS	13-9-23.	300 "	140 "	N	-do-
" VALVES.	8-6-23, 11-6-23.	40 "	140 "	N	-do-
SILENCERS	3-8-23, 6-8-23, 8-8-23, 11-9-23, 16-11-23.	0.02 "	3.5 "	N	-do-
EXHAUST PIPES.	26-11-23, 4-12-23.	0.02 "	3 "	N	-do-
" WATER JACKET	6-8-23, 9-8-23, 26-9-23.	1 "		N	-do-
SEPARATE FUEL TANKS	-do-				

PLANS. Are approved plans forwarded herewith for shafting

22-7-20

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

SPARE GEAR See list attached to report.

The foregoing is a correct description.

Switzer Brothers
Limited
Manufacturers.

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