

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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No. in Survey held at Glasgow Date, First Survey 20TH JANUARY, 1938. Last Survey 1-12-1938
 Reg. Book. T/S's "Blau Torles" (Number of Visits 72.)

Built at Glasgow By whom built Glasgow Dockyard Co. Ltd. Yard No. 434 Tons 7529.34
 Gross 7529.34
 Net 3524.04
 When built 1938

Engines made at Glasgow By whom made John Kincaid & Co. Ltd. Engine No. 693 When made 1938

Boilers made at ditto By whom made ditto Boiler No. 693 When made 1938

Registered Horse Power L.P. Turbine 413 Owners Blue Line Steamers Ltd. Port belonging to Glasgow

Nom. Horse Power as per Rule MAIN ENG 1146 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which Vessel is intended Foreign

ENGINES, &c. Description of Engines Triple Expansion (2 Sts) + LP Turbines Revs. per minute 92

Dia. of Cylinders 26" 42" 68" Length of Stroke 48" No. of Cylinders 6 No. of Cranks 6

Crank shaft, dia. of journals as per Rule 14.4 Crank pin dia. 15" Crank webs Mid. length breadth Thickness parallel to axis 9 1/8"
as fitted 15" Mid. length thickness shrunk Thickness around eye-hole 6 7/8"

Intermediate Shafts, diameter as per Rule 13.4 Thrust shaft, diameter at collars as per Rule 14.4
as fitted 14 3/8" as fitted 15"

Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 15.13 Is the lube screw shaft fitted with a continuous liner Yes
as fitted as fitted 16 3/8"

Bronze Liners, thickness in way of bushes as per Rule .8 Thickness between bushes as per Rule .76 Is the after end of the liner made watertight in the propeller boss Yes
as fitted 7/8" as fitted 7/8"

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yes
 If 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-corrosive Yes
 If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of the lube shaft No If so, state type None Length of Bearing in Stern Bush next to and supporting propeller 5'-2 1/2"

Propeller, dia. 17.0 Pitch 18'-6" No. of Blades 4 Material Bronze whether Malleable Yes Total Developed Surface 100 sq. feet

Feed Pumps worked from the Main Engines, No. None Diameter - Stroke - Can one be overhauled while the other is at work -

Bilge Pumps worked from the Main Engines, No. None Diameter - Stroke - Can one be overhauled while the other is at work -

Feed Pumps No. and size 4 (2.15 1/2 x 11 1/2 x 24) (2.12 1/2 x 9 1/2 x 24) Pumps connected to the No. and size 4 (2.17 1/2 x 9 x 15) (1.10 1/2 x 12 1/2 x 21) (1.9 1/2 x 11 1/2 x 18)
How driven Steam Main Bilge Line How driven Steam

Ballast Pumps, No. and size 1-10 1/2 x 12 1/2 x 21 Lubricating Oil Pumps, including Spare Pump, No. and size 3 at 9 1/2 x 10 1/2 x 24

Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room ER 2. 3 1/2 x 1-3" BR 2. 2 1/2. 2 3 1/2 Tunnel Well 1. 2 1/2"
 In Pump Room In Holds, &c. 1. 1. 2. 3" 2. 2. 3 1/2" 3. 2. 2 1/2" Gun Bunker 2. 2 1/2"
Side Bunker 2. 3" 1. 4. 2. 3" 1- 2 1/2" 2. 15-1. 3"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 2 at 13" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size one 5 1/2" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes

Are all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Overboard Discharges above or below the deep water line Yes

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What Pipes pass through the bunkers None How are they protected None

What pipes pass through the deep tanks None Have they been tested as per Rule Yes

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Is the arrangement 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 spaces, or from one compartment to another Yes Is the Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from U.E.R. PLATFORM

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 14480 #

Is Forced Draft fitted Yes No. and Description of Boilers 5 Single Ended Working Pressure 220

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? -

Is the donkey boiler intended to be used for domestic purposes only -

PLANS. Are approved plans forwarded herewith for Shafting Yes Main Boilers Yes Auxiliary Boilers Yes Donkey Boilers -
 (If not state date of approval)

Superheaters Cutycal General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements Yes

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied one Propeller Shaft (continuous Liner) complete
• stamped HR. 4514 W.G.M. 13.9.38 also 4 Bronze Blades

The foregoing is a correct description,
 For JOHN G. KINCAID & CO. LIMITED.

Director. Manufacturer.



