

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report 23rd Aug. 1937 When handed in at Local Office 19 Port of Oslo
 No. in Survey held at Fredrikstad Date, First Survey 9th February 1937 Last Survey 21st August 1937
 Reg. Book. on the steel screw steamer "FRANS-GORTHON" (Number of Visits 27)
 Built at Fredrikstad By whom built Fredrikstad Mek. Verksted Yard No. 283 Tons { Gross 1824
 Engines made at Fredrikstad By whom made Fredrikstad Mek. Verksted engine No. 1088 When made 1937 Net 932
 Boilers made at Fredrikstad By whom made Fredrikstad Mek. Verksted Boiler No. 1337-38 When made 1937
 Registered Horse Power Owners Kederwachtebolaget Sylfe Port belonging to Kelvington
 Nom. Horse Power as per Rule 277 Is Refrigerating Machinery fitted for cargo purposes ☒ Is Electric Light fitted yes
 Trade for which Vessel is intended general

ENGINES, &c. — Description of Engines Four crank comp. inverted, vertical Revs. per minute 100
 Dia. of Cylinder 2 x 390 2 x 960 mm Length of Stroke 875 mm No. of Cylinders 4 No. of Cranks 4
 Crank shaft, dia. of journals as per Rule 289.7 Crank pin dia. 297 Crank webs 566 Mid. length breadth 185 Thickness parallel to axis 185
 as fitted 294 Mid. length thickness 185 Thickness around eye-hole 135
 Intermediate Shafts, diameter as per Rule 275.9 Thrust shaft, diameter at collars as per Rule 289.7
 as fitted 278 as fitted 294
 Tube Shafts, diameter as per Rule 317.4 Screw Shaft, diameter as per Rule 320 Is the tube shaft fitted with a continuous liner yes
 as fitted 17.2 mm as fitted 12.9
 Bronze Liners, thickness in way of bushes as per Rule 18 Thickness between bushes as per Rule 14 Is the after end of the liner made watertight in the
 propeller boss yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ☒
 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 ☒
 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 end of the tube
 shaft ☒ If so, state type ☒ Length of Bearing in Stern Bush next to and supporting propeller 1570 mm
 Propeller, dia. 3860 Pitch 4300 No. of Blades 4 Material Mang. bronze whether Moveable ☒ Total Developed Surface 6.15 m²
 Feed Pumps worked from the Main Engines, No. ☒ Diameter ☒ Stroke ☒ Can one be overhauled while the other is at work ☒
 Bilge Pumps worked from the Main Engines, No. ☒ Diameter ☒ Stroke ☒ Can one be overhauled while the other is at work ☒
 Feed Pumps { No. and size Two, 240 x 175 x 450 mm Pumps connected to the { No. and size Two, 150 x 150 x 150, & 190 x 200 x 175 mm.
 How driven steam driven, vert. duplex Main Bilge Line { How driven steam driven, duplex
 Ballast Pumps, No. and size one 190 x 200 x 175 Lubricating Oil Pumps, including Spare Pump, No. and size ☒
 Are two independent means arranged for circulating water through the Oil Cooler ☒ Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps; — In Engine and Boiler Room Port: Two 65 mm S.B. Two 65 mm & two from settling tank gutterways.
 In Pump Room ☒ In Holds, &c. Fore hold: one 50 mm P.S. one 90 mm P.S.
After hold: one 75 mm P.S. one 75 mm P.S. one 75 mm from tunnel well.

Main Water Circulating Pump Direct Bilge Suctions, No. and size one 170 mm Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size Two 95 mm 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 valves
 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 below
 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 ☒ How are they protected ☒
 What pipes pass through the deep tanks ☒ Have they been tested as per Rule ☒
 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 freed. dkt.

MAIN BOILERS, &c. — (Letter for record (S) E10/11/36) Total Heating Surface of Boilers 382.6 m² 4120 sq. ft.
 Is Forced Draft fitted yes No. and Description of Boilers Two, cylindrical multitubular Working Pressure 15.5 kg./cm²
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes 220 lb./in²
 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 29/10/36 Main Boilers 10/11/36 Auxiliary Boilers ☒ Donkey Boilers ☒
 (If not state date of approval)
 Superheaters 12/12/36 General Pumping Arrangements 5/1/37 Oil fuel Burning Piping Arrangements 24/12/36
 E.R. piping 24/12/36

SPARE GEAR.

Has the spare gear required by the Rules been supplied yes
 State the principal additional spare gear supplied tail shaft — 6 condenser tubes with packings.
3 piston rings for L.P. piston. Packing rings for feed and air pumps. Piston rod bottom
end bearing for electric light engine. Piston rod and bottom end brass for air pump engine.
Springs for H.P. & L.P. safety valves.

The foregoing is a correct description,

Manufacturer.

pr. % FREDRIKSTAD MEK. VERKSTED

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