

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report 15. 10. 1925 When handed in at Local Office 19 OCT 1925 Port of LIVERPOOL  
 No. in Survey held at Lytham Date, First Survey 12th Dec 1925 Last Survey 12th Dec 1925  
 Reg. Book. 38857 on the S.S. 'Elmfield' (Number of Visits 3)  
 Built at Lytham By whom built Lytham S.B. & Eng. Co. Ltd. Yard No. 674 Tons { Gross 449  
 Engines made at 82 By whom made 82 Engine No. 483 Net 175  
 Boilers made at 82 By whom made 82 Boiler No. 483 When built 1925  
 when made 1925  
 Registered Horse Power 82 Owners Zillah Chgo. & Carrying Co. Ltd. Port belonging to Liverpool  
 Nom. Horse Power as per Rule 82 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes  
 Trade for which Vessel is intended coasting

ENGINES, &c.—Description of Engines Vertical compound  
 Dia. of Cylinders 17 + 38 Length of Stroke 24 No. of Cylinders 2 Revs. per minute 110  
 Crank shaft, dia. of journals as per Rule 7 1/2 Crank pin dia. 7 7/8 Crank webs Mid. length breadth 10 1/2 No. of Cranks 2  
 as fitted 7 5/8 Mid. length thickness 5 Thickness parallel to axis 5  
 Intermediate Shafts, diameter as per Rule 7.15 Thrust shaft, diameter at collars as per Rule 7 1/2  
 as fitted 7 1/4 as fitted 7 7/8  
 Tube Shafts, diameter as per Rule 17/32 Screw Shaft, diameter as per Rule 8 1/4 Is the shaft fitted with a continuous liner Yes  
 as fitted 17/32 as fitted 8 1/4  
 Bronze Liners, thickness in way of bushes as per Rule 17/32 Thickness between bushes as per Rule 17/32 Is the after end of the liner made watertight in the propeller boss Yes  
 as fitted 17/32 as fitted 17/32 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 tube shaft Yes  
 Length of Bearing in Stern Bush next to and supporting propeller 3'-2"  
 Propeller, dia. 9'-0" Pitch 10'-6" No. of Blades 4 Material C.I. whether Moveable Yes Total Developed Surface 26 sq. feet  
 Feed Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 12" Can one be overhauled while the other is at work Yes  
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 12" Can one be overhauled while the other is at work Yes  
 Feed Pumps { No. and size 1, 5' x 3 1/2" x 6" Pumps connected to the { No. and size 1, 6 1/2" x 6 1/2" x 8"  
 { How driven steam Main Bilge Line { How driven steam  
 Ballast Pumps, No. and size 1, 6 1/2" x 6 1/2" x 8" Lubricating Oil Pumps, including Spare Pump, No. and size 1  
 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 2 @ 2 1/4", 2 @ 2 1/2"  
 In Holds, &c. 3 @ 2 1/2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1, 3 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 2 1/2"  
 Are all the Bilge Suction Pipes in holds 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 Yes  
 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  
 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 are carried through the bunkers bilge & ballast lines for? How are they protected wood casing.  
 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 worked from Yes

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 14960  
 Is Forced Draft fitted No No. and Description of Boilers one, S.E. cylindrical Working Pressure 140 lbs.  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes  
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? Yes  
 PLANS. Are approved plans forwarded herewith for Shafting Yes Main Boilers Yes Auxiliary Boilers Yes Donkey Boilers Yes  
 (If not state date of approval)  
 Superheaters Yes General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements Yes

SPARE GEAR. State the articles supplied:—

2 propeller blades  
 1 eccentric strap.  
 1 pair each top & bottom end brasses.  
 2 top end, 2 bottom end & 2 main bearing bolts.  
 1 set coupling bolts.  
 1 feed & bilge pump valves.  
 assorted bolts & nuts & washers, tube stoppers & rods.

The foregoing is a correct description,

THE LYTHAM SHIPBUILDING AND  
ENGINEERING COMPANY, LIMITED.

Manufacturer.



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