

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

31 AUG 1927

Date of writing Report 30th Aug 1927 When handed in at Local Office 19 Port of Dundee
 No. in Survey held at Dundee Date, First Survey 6-8-26 Last Survey 22-8-1927
 Reg. Book. 41762 on the T.S.S. "MARLOWE" (Number of Visits 1) Tons Gross 812.83
Net 342.28
 Built at Dundee By whom built The Caledon S.B. & Eng^y Co^l Ltd Yard No. 307 When built 1927
 Engines made at Dundee By whom made The Caledon S.B. & Eng^y Co^l Ltd Engine No. 507 when made 1927
 Boilers made at Dundee By whom made The Caledon S.B. & Eng^y Co^l Ltd Boiler No. 507 when made 1927
 Registered Horse Power 183 Owners The Mayor, Aldermen & Burgesses of the Borough of Ballisodun Port belonging to Liverpool
 Nom. Horse Power as per Rule 183 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which Vessel is intended Ferry Purposes

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 139
 Dia. of Cylinders 14 1/2 - 23 1/2 - 38" Length of Stroke 24" No. of Cylinders 6 No. of Cranks 6
 Crank shaft, dia. of journals as per Rule 6.97" Crank pin dia. 7" Crank webs Mid. length breadth 13 1/4" Thickness parallel to axis 5 1/2"
 as fitted 7" Mid. length thickness 5 1/4" Thickness around eye-hole 3 1/2"
 Intermediate Shafts, diameter as per Rule 6.64" Thrust shaft, diameter at collars as per Rule 6.97"
 as fitted 6 3/4" as fitted 7"
 Tube Shafts, diameter as per Rule 7.72" Is the tube shaft fitted with a continuous liner No
 as fitted 8 1/2" as fitted 8 1/2" Is the screw shaft fitted with a continuous liner No
 Screw Shaft, diameter as per Rule 7.72" as fitted 8 1/2"
 Bronze Liners, thickness in way of bushes as per Rule ✓ Thickness between bushes as per Rule ✓ Is the after end of the liner made watertight in the propeller boss ✓
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓
 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 ✓
 Propeller, dia. 9'-0" Pitch 11'-3" No. of Blades 3 Material Bronze whether Movable No Total Developed Surface 22 sq. feet
 Length of Bearing in Stern Bush next to and supporting propeller 4'-0"
 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 Two 6" x 8 1/2" x 13" Pumps connected to the Main Bilge Line { No. and size One 6" x 8 1/2" x 13" One 5" x 4 1/2" x 12"
 How driven Steam How driven Steam Bilge ejector
 Ballast Pumps, No. and size One 6" x 8 1/2" x 13" Lubricating Oil Pumps, including Spare Pump, No. and size None
 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 Four 2 1/2"
 In Holds, &c. One 2" & One 3"

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 6" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 3"
 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 Above
 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 Steam Pipes How are they protected Steel Covers
 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 None Is it fitted with a watertight door ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record (T)) Total Heating Surface of Boilers 258 3244 sq. ft. ✓
 Is Forced Draft fitted No No. and Description of Boilers 2 Single Ended Return Tube Working Pressure 180 lbs.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? ✓
 PLANS. Are approved plans forwarded herewith for Shafting 18-2-26 Main Boilers. 8-5-26 Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)
 Superheaters ✓ General Pumping Arrangements 11-10-26 Oil fuel Burning Piping Arrangements ✓

SPARE GEAR. State the articles supplied:—
Propeller Shaft, Stern Bush, 12 Coupling Bolts, 2 Bottom end Bolts & Nuts, 2 Top End Bolts & Nuts, 2 Main Bearing Bolts & Nuts, 12 Piston Studs & Nuts, 1 Eccentric and Strap complete, 1 Set Valves for main Feed Pumps, Air Pumps, Bucket with Rings, 12 Condenser Tubes, 100 Condenser Fanules, 20 Tubes for main Boilers, 6 Stay Tubes & Nuts for main Boilers, 1 Set U.S.A. Metallic Packing for HP & MP Piston Rods, 5 Tube Stoppers for main Boilers.

The foregoing is a correct description,

D. D. D. D.

SECRETARY

Manufacturer.



© 2020

Lloyd's Register Foundation

1926 August 6, 10, 16, 18, 25 September 2, 7, 16, 20, 27 Oct 1, 18 November 3, 19, 12, 15, 24, 30.
 During progress of work in shops -- December 3, 8, 13, 15 1927 January 27, 31, February 1, 2, 9, 10, 11, 16, 17, 18, 21, 22, 25
 Dates of Survey while building During erection on board vessel --- March 3, 4, 7, 8, 10, 11, 14, 18, 21, 24, April 1, 8, 9, 13, 21, 25, 28, May 3, 6, 11, 17, 19, 23, 25, June 1, 2, 13, 16, 20, 23
 July 4, 5, 8, 15, August 5, 19, 22, 23.
 Total No. of visits 73

Dates of Examination of principal parts—Cylinders 7-3-27 Slides 3-11-26 Covers 12-11-26
 Pistons 1-10-26 Piston Rods 21-3-27 Connecting rods 14-3-27
 Crank shaft P 6-5-27 S 25-4-27 Thrust shaft P 6-5-27 S 25-4-27 Intermediate shafts 13-6-27
 Tube shaft ✓ Screw shaft 13-6-27 Propeller 13-6-27
 Stern tube 20-6-27 Engine and boiler seatings 20-6-27 Engines holding down bolts 8-7-27
 Completion of fitting sea connections 26-6-27
 Completion of pumping arrangements 15-7-27 Boilers fixed 5-7-27 Engines tried under steam 19-8-27
 Main boiler safety valves adjusted 19-8-27 Thickness of adjusting washers all 2 3/4"
 Crank shaft material Steel Identification Mark P 6-5-27 H.Y.B. S 25-4-27 H.Y.B. Thrust shaft material Steel Identification Mark P 6-5-27 H.Y.B. S 25-4-27 H.Y.B.
 Intermediate shafts, material Steel Identification Marks 13-6-27 H.Y.B. Tube shaft, material ✓ Identification Mark ✓
 Screw shafts material Steel Identification Mark 13-6-27 H.Y.B. Steam Pipes, material Copper Test pressure 450 lbs. Date of Test 16-6-27
 Is an installation fitted for burning oil fuel No. Is the flash point of the oil to be used over 150°F. ✓
 Have the requirements of the Rules for carrying and burning oil fuel been complied with ✓
 Is this machinery duplicate of a previous case Yes. If so, state name of vessel T.S.S. "WALLASEY"

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery of this vessel has been constructed under Special Survey, & in accordance with the Rules. The materials and workmanship are good. The machinery has been fitted onboard the vessel in an efficient manner, tried under working conditions and found satisfactory. It is eligible in my opinion to be classed LMC 8-27 - OG

It is submitted that this vessel is eligible for THE RECORD. LMC 8-27 O.G.
 J.S.T. 19/27
 J.P.P.

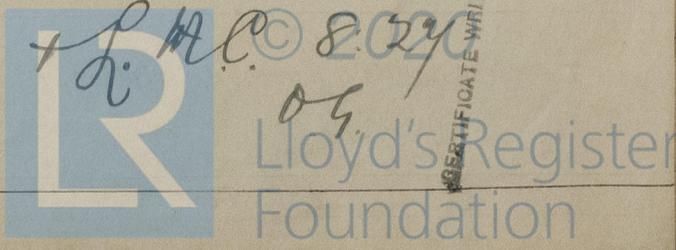
The amount of Entry Fee ... £ 3 : 0 :
 Special ... £ 45 : 15 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 19...
 When received, 20.9.27

Glen S. Thomas
 Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 16 MAR 1928

Committee's Minute FRI. 30 SEP 1927

Assigned No action



Certificate to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute.