

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Received at London Office

of writing Report 19 When handed in at Local Office 17/5/27 19 Port of
 in Survey held at Glasgow Date, First Survey 15th January 1927 Last Survey 4.5. 1927
 g. Book. on the s/s "CITY OF HEREFORD" (Number of Visits 54)
 Tons { Gross 3701
 Net 3216
 When built 1927
 By whom built Messrs Barclay Curle & Co Ltd Yard No. 615
 By whom made Messrs Barclay Curle & Co Engine No. 615 when made 1927
 By whom made Messrs Barclay Curle & Co Boiler No. 615 when made 1927
 Port belonging to Liverpool
 Owners Ellerman Lines Ltd
 Registered Horse Power 524 523 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.
 m. Horse Power as per Rule 524 523
 ade for which Vessel is intended

GINES, &c.—Description of Engines Inverted, direct acting triple expansion Revs. per minute 75
 a. of Cylinders 24 4 1/2 72 1/2 Length of Stroke 48" No. of Cylinders Three No. of Cranks Three
 ank shaft, dia. of journals as per Rule 13.9" Crank pin dia. 14 3/4" Crank webs Mid. length breadth 22" Thickness parallel to axis 6 1/4"
 as fitted 14 1/2" Mid. length thickness 9" shrunk Thickness around eye-hole 6 1/4"
 Intermediate Shafts, diameter as per Rule 13.3" as fitted 13 3/8"
 Thrust shaft, diameter at collars as per Rule 13.9" as fitted 14 1/4"
 be Shafts, diameter as per Rule 14.8" as fitted 15 1/2" Is the shaft fitted with a continuous liner Yes.
 Bronze Liners, thickness in way of bushes as per Rule 13 1/2" as fitted 13 1/2" Thickness between bushes as per Rule 19 1/2" as fitted 19 1/2" Is the after end of the liner made watertight in the
 opeller boss yes. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
 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
 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
 d. of the tube shaft Length of Bearing in Stern Bush next to and supporting propeller 5' 2 1/2"
 ropeller, dia. 18' 3" Pitch 14' 6" No. of Blades 4 Material Bronze whether Movable yes Total Developed Surface 105 sq. feet
 eed Pumps worked from the Main Engines, No. 2 Diameter 4 1/2" Stroke 24" Can one be overhauled while the other is at work yes
 ilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 24" Can one be overhauled while the other is at work yes
 eed Pumps { No. and size 2 @ 10 1/2" x 8" x 22" EACH. Pumps connected to the { No. and size 1 Ballast pump 9 x 10 x 24"
 How driven STEAM RECIPROCATING. Main Bilge Line How driven Steam reciprocating
 allast Pumps, No. and size 1 - 9 x 10 x 24" Lubricating Oil Pumps, including Spare Pump, No. and size
 re two independent means arranged for circulating water through the Oil Cooler
 ilge Pumps;—In Engine and Boiler Room 2 @ 3" IN ER / 2 @ 3" IN B.R.
 n Holds, &c. No 1 - 2 @ 2 1/2" (FOR) - No 2 - 2 @ 3" - No 3 - 2 @ 2 1/2" - No 4 - 2 @ 2 1/4" - No 5 - 2 @ 2 1/4"
 TUNNEL WELL - 1 @ 2 1/2" - DEEP TANK (AF) 2 @ 2 1/2"
 ain Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 4 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 To. and size 1 - 4 1/2" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-bones Yes.
 re 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.
 re all Sea Connections fitted direct on the skin of the ship Yes. Are they fitted with Valves or Cocks Both.
 re 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.
 re 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 Toward hold Suctions How are they protected Below ceiling
 What pipes pass through the deep tanks 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
 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 UPPER DECK.
 2SB & 1 Aux SB

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 2 MAIN - 4916 sq. ft., 1 AUX - 2267 - TOTAL - 7183 sq. ft.
 Is Forced Draft fitted yes No. and Description of Boilers 2 MAIN - 1 AUX - MULTITUBULAR. Working Pressure ALL 225 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.
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:— 2 each of con. and top & bottom end bolts and main bearing bolts & nuts
 one set of connecting bolts, 1 set of feed & high pump valves, 1 set of piston pins for each cylinder.
 propeller blades, iron of various sizes and a quantity of assorted bolts & nuts.

The foregoing is a correct description,
 FOR BARCLAY, CURLE & CO., LTD.

John Alexander
 ENGINE WORKS MANAGER

Manufacturer.



© 2020

Lloyd's Register
 Foundation

003075 - 003082 - 0215

1926 Jan 15 Feb 5 12 23 25 Mar 10 17 19 21 23 June 2 4 7 22 24 29 July 12 26 Aug 3 10 19 27 31 Sep 3 7 13
 During progress of work in shops - - 30 Oct 7 8 11 12 18 19 26 29 Dec 1 13 20 27 (1927) Jan 18 Feb 3 15 Mar 30 Apr 4 13 19 21 25 28 29 May 2 4
 Dates of Survey while building { During erection on board vessel - - - }
 Total No. of visits 54

Dates of Examination of principal parts—Cylinders 12-7-26 Slides 27-8-26 Covers 27-8-26
 Pistons 31-8-26 Piston Rods 31-8-26 Connecting rods 31-8-26
 Crank shaft 29-6-26 Thrust shaft 11-10-26 Intermediate shafts 11-10-26
 Tube shaft ✓ Screw shaft 11-10-26 Propeller 7-9-26
 Stern tube 7.9.26 Engine and boiler seatings 3/2/27 Engines holding down bolts 13/4/27
 Completion of pumping arrangements 4/5/27 Boilers fixed 13/4/27 Engines tried under steam 4/5/27
 Main boiler safety valves adjusted 25/4/27 Thickness of adjusting washers P. 8-7 1/2 S. 1 1/2 C. 8-7 1/2 S. 2 1/4 S. 3 1/2 S. 3 1/2
 Crank shaft material Steel Identification Mark 8377 LLOYDS 1411 AF 19-2-26 29/6/26 H.L.S. Thrust shaft material Steel Identification Mark 6571 M 24-2-26 17-10-26
 Intermediate shafts, material Steel Identification Marks 6549 RL 22-1-26 11-10-26 H.L.S. Tube shaft, material 12507 RL 1616 RL 12506 RL 11-10-26 H.L.S. Identification Mark 6549 RL 11-10-26 H.L.S.
 Screw shaft, material Steel Identification Mark 11-10-26 H.L.S. Steam Pipes, material 11-10-26 H.L.S. Test pressure 645 lb Date of Test 21/4/27
 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 No. ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The Machinery of this vessel has been built under special Survey and in accordance with the Rules and approved plans. The materials and workmanship are good. It has been efficiently secured in position and on completion has been examined under working conditions with satisfactory results.
 The Machinery of this vessel is eligible, in our opinion to be classed in the Register Book with notation of +LMC 5/27.

It is submitted that
 this vessel is eligible for
THE RECORD. + LMC 5. 27. FD. CL.
 2SB & 1 Aux. SB.

A.L.
 17/5/27

GLASGOW

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

The amount of Entry Fee ... £ 6 : - :
 Special ... £ 101 : 4 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 11/5/27
 When received, 30.6.27

J.W.D.
 21/5/27
 J. J. Munro + H. Sutherland
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 17 MAY 1927

Assigned + LMC 5.27.

F.D.

CERTIFICATE WRITTEN



© 2020
 Lloyd's Register
 Foundation