

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 9.6.25 When handed in at Local Office 9.6.25 Port of PLYMOUTH
 No. in Survey held at PLYMOUTH. Date, First Survey 24.4.25 Last Survey 9.6.1925
 Reg. Book. 81694 on the steel & Yl. "RUTH"
 (Number of Visits 14.) Gross 226
 Built at Bowling By whom built Scott & Sons Yard No. 198 Tons Net 89
 Engines made at Glasgow By whom made Ross & Duncan Engine No. 707 When built 1904
 Boilers made at do. By whom made do. Boiler No. 1124 when made 1904
 Registered Horse Power 38 Owners Baker & Kernick Ltd. Port belonging to Cardiff
 Nom. Horse Power as per Rule 40 HP Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted No.

ENGINES, &c.—Description of Engines Compound Surface Condensing
 Dia. of Cylinders 14".29" Length of Stroke 20" Revs. per minute No. of Cylinders 2 No. of Cranks 2
 Dia. of Crank shaft journals as per rule 5.79 as fitted 5.8 Dia. of Crank pin 5.78 Crank webs Mid. length breadth 9" Thickness parallel to axis 4"
 Diameter of Thrust shaft under collars as per rule 5.79 as fitted 5.82 Diameter of Tunnel shaft as per rule 5.52 as fitted 5.52 Diameter of Screw shaft as per rule 6.43 as fitted 6.43 Is the Screw shaft fitted with a continuous liner the whole length of the stern tube No. 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 joints burned 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 appliance fitted at the after end of the shaft to permit of it being efficiently lubricated Yes
 Pitch of Propeller 11".4" No. of Blades 4 State whether Moveable Yes Diameter of Propeller 4'-4" square feet
 No. of Feed Pumps fitted to the Main Engines 1 Diameter of ditto 2 1/4 Stroke 10" Can one be overhauled while the other is at work Yes
 No. of Bilge Pumps fitted to the Main Engines 1 Diameter of ditto 2 1/4 Stroke 10" Can one be overhauled while the other is at work Yes
 Total number and size of power driven Feed and Bilge Auxiliary Pumps 2 - 5 1/2 x 3 1/2 x 5 Worthington Duplex
 No. and size of Pumps connected to the Main Bilge Line 2 - above
 No. and size of Ballast Pumps 2 - above No. and size of Lubricating Oil Pumps, including Spare Pump
 Are two independent means arranged for circulating water through the Oil Cooler Yes No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 2 - 2" and in Holds, &c. 2 - 2"

No. and size of Main Water Circulating Pump Bilge Suctions 1 - 2 1/2" No. and size of Donkey Pump Direct Suctions to the Engine Room Bilges 1 - 2" Are all the Bilge Suction Pipes in holds and tunnel well fitted with steam-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 connections with the sea direct on the skin of the ship Yes Are they 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 Discharge Pipes 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 are carried through the bunkers None How are they protected
 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 Screw Shaft Tunnel watertight none Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers see Gl. Rpt 25140. 726 sq. ft.
 Is Forced Draft fitted No. No. and Description of Boilers One Single ended marine working Pressure 120-lbs.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? See Glasgow Report No 25140.
 IS A DONKEY BOILER FITTED? No. If so, is a report now forwarded?
 PLANS. Are approved plans forwarded herewith for Shafting no Main Boilers no Auxiliary Boilers Donkey Boilers
 General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:—2 top end bolts & nuts, 2 bottom end bolts & nuts, 2 main bearing bolts & nuts, 1 set coupling bolts & nuts, 1 set feed and bilge pump valves, iron of various sizes and a quantity of assorted bolts & nuts.

The foregoing is a correct description

Manufacturer.



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During progress of work in shop April 24, 27, 28, 30 May 1, 2, 5, 6, 9, 12, 14, 15, 29
 June 9
 During erection on board vessel
 Total No. of visits 14.

Dates of Examination of principal parts - Cylinders 24. 4. 25 Slides 24. 4. 25.
 Covers 24. 4. 25 Pistons 24. 4. 25 Rods 30. 4. 25.
 Connecting rods 30. 4. 25 Crank shaft 27. 4. 25 Thrust shaft 27. 4. 25.
 Tunnel shafts none 2 Screw shaft 27. 4. 25 Propeller 5. 5. 25
 Stern tube 5. 5. 25 Engine and boiler seatings 30. 4. 25 Engines holding down bolts 30. 4. 25.
 Completion of pumping arrangements 14. 5. 25 Boilers fixed ✓ Engines tried under steam 15. 5. 25
 Completion of fitting sea connections ✓ Stern tube ✓ Screw shaft and propeller ✓
 Main boiler safety valves adjusted 15. 5. 25 Thickness of adjusting washers S $\frac{7}{32}$ P $\frac{5}{16}$
 Material of Crank shaft steel Identification Mark on Do. ✓
 Material of Thrust shaft " Identification Mark on Do. ✓
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓
 Material of Screw shafts steel Identification Marks on Do. ✓
 Material of Steam Pipes Copper. Test pressure 240 lbs per sq in. Date of Test 4. 6. 25.
 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.)

This machinery has been opened out, examined and put in good order as per attached repair report and the safety valves have been adjusted under steam ^{to 120 lbs per square inch} and machinery tested with satisfactory results.

In my opinion it is suitable for classification with record L.M.C. 6, 25.

The amount of Entry Fee ... £
 Special ... see hull
 Donkey Boiler Fee ... repair reports.
 Travelling Expenses (if any) £ : :
 When applied for, 19
 When received, 19

M. H. A. A.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute JUL 17 1925

Assigned



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