

No. 112569

Rpt. 4.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

-5 MAR 1945

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Date of writing Report 15th Feb. 1945 When handed in at Local Office 19 Port of Ipswich
No. in Survey held at Rowhedge Date, First Survey 23.2.44 Last Survey 14th Feb. 1945
Reg. Book (Number of Visits 23)
on the V.I.C. 79
Built at Louisloft By whom built Richards Ironworks Ltd. Yard No. 342 When built 1945
Engines made at Rowhedge By whom made Rowhedge Ironworks Ltd. Engine No. 655 When made 1945
Boilers made at Stockton-on-Tees By whom made Stockton C.E. & Riley Bldg. Co. Boiler No. 6851 When made 1944
Registered Horse Power 6.9 Owners Ministry of War Transport Port belonging to Louisloft
Nom. Horse Power as per Rule 24 Is Refrigerating Machinery fitted for cargo purposes to Is Electric Light fitted to
Trade for which vessel is intended Coasting

ENGINES, &c.—Description of Engines Compound Reciprocating Revs. per minute 150
Dia. of Cylinders 10 1/2" — 22" Length of Stroke 14" No. of Cylinders Two No. of Cranks Two
Crank shaft, dia. of journals as per Rule 4 3/8" Crank pin dia. 4 3/8" Crank webs shrunk Thickness parallel to axis 2 7/8"
Intermediate Shafts, diameter as per Rule 4 1/3" Thrust shaft, diameter at collars as per Rule 4 26"
Tube Shafts, diameter as per Rule 4 7/8" Is the screw shaft fitted with a continuous liner to
Screw Shaft, diameter as fitted 4 7/8"
Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as fitted 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 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 at In If so, state type Chabrier Length of Bearing in Stern Bush next to and supporting propeller 20"
Propeller, dia. 66" Pitch 86" No. of Blades 4 Material C.I. whether Moveable to Total Developed Surface 11-6 sq. feet
Feed Pumps worked from the Main Engines, No. 6 Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work to
Bilge Pumps worked from the Main Engines, No. 6 Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work to
Feed Pumps No. and size ONE 2 1/8" x 6" ONE 5" x 5" x 2" D.A. Pumps connected to the No. and size ONE 2 1/8" x 6" ONE 5 1/4" x 4 1/4" x 5" D.A. DUPLEX
How driven Main Engine Steam Donkey Main Bilge Line How driven Main Engine Steam Donkey G.S.P.
Ballast Pumps, No. and size G.S.P. 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 ONE @ 2" connected to both main + G.S.P.s; ONE @ 2" connected to G.S.P. only
In Pump Room ✓ In Holds, &c. ONE @ 2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size ONE @ 2" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size have 1 @ 2" 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 no main injections in welded steel stools 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 ✓ How are they protected ✓
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 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 have Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record have) Total Heating Surface of Boiler 525 sq ft
Which Boiler are fitted with Forced Draft have Which Boiler are fitted with Superheaters none
No. and Description of Boilers one - Vertical multitubular Working Pressure 120 lbs/sq
IS A REPORT ON MAIN BOILERS NOW FORWARDED? (Returned) attached
IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? ✓
Can the donkey boiler be used for domestic purposes only ✓

PLANS. Are approved plans forwarded herewith for Shafting 28-10-41 Main Boilers ✓ Auxiliary Boilers ✓ Donkey Boilers ✓
(If not state date of approval)
Superheaters ✓ General Pumping Arrangements 30-11-43 Oil fuel Burning Piping Arrangements ✓

SPARE GEAR.

Has the spare gear required by the Rules been supplied no Spare C.I. propeller only supplied ✓
State the principal additional spare gear supplied ?

The foregoing is a correct description.

For RICHARDS IRONWORKS Limited.

MANAGING DIRECTOR.

Manufacturer.

MANAGING DIRECTOR.

Lloyd's Register

Foundation

005756-005778-02197

Dates of Survey while building
 During progress of work in shops - - 1944: Feb 23 Mar 3. 13. 22. 30 Apr 12. 27. May 30 June 6. 17 July 6.
 Aug 23 Oct 11. Nov 8. Dec 1. 7. 21.
 During erection on board vessel - - 1945: Jan 24. 26 Feb 1. 5. 12. 14.
 Total No. of visits 23

Dates of Examination of principal parts - Cylinders 27-4-44 Slides 12-4-44 Covers 27-4-44
 Pistons 3-3-44 Piston Rods 23-2-44 Connecting rods 23-2-44
 Crank shaft 13-3-44 Thrust shaft 13-3-44 Intermediate shafts ✓
 Tube shaft ✓ Screw shaft 1-12-44 Propeller 1-12-44
 Stern tube 1-12-44 Engine and boiler seatings 8-11-44 Engines holding down bolts 21-12-44
 Completion of fitting sea connections 8-11-44
 Completion of pumping arrangements 12-2-45 Boilers fixed 7-12-44 Engines tried under steam 12-2-45 + 14-2-45
 Main boiler safety valves adjusted 12-2-45 Thickness of adjusting washers Port Valve 3/8", Starboard Valve 1/4"
 Crank shaft material Steel Identification Mark ✓ Thrust shaft material ✓ Identification Mark ✓
 Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Steel Identification Mark ✓ Steam Pipes, material Copper ✓ Test pressure 240 lbs/sq Date of Test 5-2-45
 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 the use of oil as fuel been complied with ✓
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo no ✓ If so, have the requirements of the Rules been complied with ✓
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with ✓
 Is this machinery duplicate of a previous case. yes ✓ If so, state name of vessel. Vic. 55
 General Remarks (State quality of workmanship, opinions as to class, &c. Vic. 55)

The Engine has not been constructed in accordance with the requirements of the Society's Rules but has been constructed under the supervision of the Society.
 The scantlings are in accordance with the Society's Rules.
 The workmanship is of good description.
 The Engine & Boiler (M.B.R. Rpt: 7-17658) have now been efficiently fitted on board a Classed vessel, examined under working conditions during a basin & sea trial, the pumping arrangements examined under working condition, accumulation test carried out on the Boiler and, in our opinion, is eligible to have Award of L.M.C. 2-45.

The amount of Entry Fee ... £ 2 : 0 : 0 When applied for,
 Special Machinery Installation £ 6 : 16 : 0 -5 MAR 1945
 Donkey Boiler Fee ... £ : : : When received,
 Travelling Expenses (if any) £ 2 : 1 : 0 19

Committee's Minute ... FRI. 16 MAR 1945
 Assigned L.M.C. 2.45 O.G.