

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

No. 16702

Received at London Office

SAL JUL 5 1924

Date of writing Report 4: 7: 1924 When handed in at Local Office 4 July 1924 Port of WEST HARTLEPOOL
 No. in Survey held at Hartlepool Date, First Survey 25 Jan Last Survey 3 July 1924
 Reg. Book. on the S.S. "KAMLOOPS" (Number of Visits 67)
 Built at Middlesbrough By whom built Furness Shipbuilding Co. Yard No. 68 Tons { Gross 2240
 Engines made at Hartlepool By whom made Richardsons Westgarth & Co. Engine No. 2645 when made 1924
 Boilers made at ditto By whom made ditto Boiler No. 2645 when made 1924
 Registered Horse Power Owners Port belonging to London
 Nom. Horse Power as per Rule 195 ✓ Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes ✓

ENGINES, &c.—Description of Engines Triple expansion ✓
 Dia. of Cylinders 18"-30"-50" Length of Stroke 36" Revs. per minute 86 ✓ No. of Cylinders 3 ✓ No. of Cranks 3 ✓
 Dia. of Crank shaft journals as per rule 7.86" 9.86" as fitted 10" Dia. of Crank pin 10 1/2" ✓ Crank webs Mid. length breadth 15 3/4" Mid. length thickness 6 1/2" Thickness parallel to axis 6 1/2" shrunk Thickness around eye-hole 4 3/4"
 Diameter of Thrust shaft under collars as per rule 7.86" 9.86" as fitted 10 3/8" Diameter of Tunnel shaft as per rule 9.39" as fitted None Diameter of Screw shaft as per rule 8.05" 10.51" as fitted 11" Is the Screw shaft fitted with a continuous liner the whole length of the stern tube yes ✓ 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 ✓ If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive yes ✓
 If two liners are fitted, is the shaft lapped or protected between the liners ✓ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated no ✓ Length of Stern Bush 3'-8 1/2" ✓ Diameter of Propeller 12'-9" ✓
 Pitch of Propeller 12'-7" ✓ No. of Blades 4 ✓ State whether Moveable yes ✓ Total Surface 56 ✓ square feet.
 No. of Feed Pumps fitted to the Main Engines ✓ Diameter of ditto ✓ Stroke ✓ Can one be overhauled while the other is at work ✓
 No. of Bilge Pumps fitted to the Main Engines 2 ✓ Diameter of ditto 3 1/2" ✓ Stroke 20" ✓ Can one be overhauled while the other is at work yes ✓
 Total number and size of power driven Feed and Bilge Auxiliary Pump 2 Main feed 7'5" x 12" single 1 General 8'5" x 8" duplex 1 Ball 9'10" x 10" dk.
 No. and size of Pumps connected to the Main Bilge Line 2 Main 3 1/2" x 20" 1 Ballast 9'10" x 10" duplex ✓
 No. and size of Ballast Pumps 1 9'10" x 10" dup. ✓ No. and size of Lubricating Oil Pumps, including Spare Pump ✓
 Are two independent means arranged for circulating water through the Oil Cooler ✓ No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3 of 2 1/2" + 1 of 3 1/2" main pumps only and in Holds, &c. No 1 hold 2 of 2 1/2" No 2 hold 2 of 2 1/2" No 3 hold 2 of 2 1/2" ✓

To. and size of Main Water Circulating Pump Bilge Suctions 1. 7" ✓ No. and size of Donkey Pump Direct Suctions
 the Engine Room Bilges 1 of 3 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 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 ✓
 Are Pipes 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 3) Total Heating Surface of Boilers 3412 sq ft ✓
 Forced Draft fitted no ✓ No. and Description of Boilers 2. single ended Working Pressure 185 lbs ✓
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? ✓
 IS A DONKEY BOILER FITTED? no ✓ If so, is a report now forwarded? ✓

PLANS. Are approved plans forwarded herewith for Shafting ✓ Main Boilers ✓ Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)
 General Pumping Arrangements Oil fuel Burning Piping Arrangements ✓

SPARE GEAR. State the articles supplied:— 2 piston rod bolts & nuts ✓ 2 connecting rod ditto ✓
 2 main bearing ditto ✓ 1 set coupling ditto ✓ 1 set feed & bilge pump valves ✓ 2 feed check valves ✓ 2 safety valve springs ✓
 4 propeller blades. bolts, nuts & iron assorted ✓

The foregoing is a correct description,
 FOR RICHARDSONS, WESTGARTH & CO. LIMITED.

L. D. W. J. A. T. E.

GENERAL MANAGER.

Manufacturer.



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Lloyd's Register
Foundation

W666-0130

1924. Jan 25. 30. Feb 9. 12. 14. 19. 21. 26. 28. Mar 2. 4. 5. 6. 7. 11. 13. 14. 17. 18. 20. 22. 25. 26. 27. 31. Apr 1. 3. 4. 8.
 9. 14. 15. 25. 28. 30. May 1. 2. 2. 5. 9. 12. 15. 16. 19. 20. 21. 23. 26. 28. June 2. 6. 7. 12. 12. 13. 16. 19. 20. 21. 23. 28.
 28. 26. 27. 30. July 2. 3.

Dates of Survey while building

During progress of work in shops --

During erection on board vessel --

Total No. of visits by

Dates of Examination of principal parts - Cylinders 4.3.24 - 28.5.24 Slides 15.5.24
 Covers 15.4.24. Pistons 1.4.24 - 1.5.24. Rods 19.2.24 - 14.4.24
 Connecting rods 12.3.24 - 1.5.24 Crank shaft 30.1.24 - 31.3.24 Thrust shaft 24.3.24 - 1.5.24
 Tunnel shafts ✓ Screw shaft 19.5.24 - 2.6.24 Propeller 15.5.24
 Stern tube 4.4.24 - 2.6.24 Engine and boiler seatings 12.6.24 mdt. Engines holding down bolts 19.6.24
 Completion of pumping arrangements 2.7.24 Boilers fixed 23.6.24 Engines tried under steam 25.6.24
 Completion of fitting sea connections mdt. Stern tube 12.6.24 Screw shaft and propeller 16.6.24
 Main boiler safety valves adjusted 25.6.24 Thickness of adjusting washers PP $\frac{3}{8}$ full S $\frac{3}{8}$ bare. SP $\frac{13}{32}$ S $\frac{3}{8}$ bare
 Material of Crank shaft Ingot Steel Identification Mark on Do. 4486 D.
 Material of Thrust shaft ditto. Identification Mark on Do. 4486 D.
 Material of Tunnel shafts None. ditto. Identification Marks on Do. ✓
 Material of Screw shafts ditto. Identification Marks on Do. 4486 D.
 Material of Steam Pipes S.D. Copper Test pressure 400 lbs ✓ Date of Test 21.6.24 ✓
 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.) A feed heater fitted, the body, & coils & headers of which have been tested to 400 lb per sq inch. hydraulic pressure.

This vessel's machinery has been built and installed under Special Survey. The materials and workmanship are good.

On completion it has been tried under full working conditions satisfactorily, and is now eligible to have the notation L.M.C. 7.24

It is submitted that
 this vessel is eligible for
 THE RECORD. + L.M.C. 7.24. CL.

R.D. Shilston
 8/7/24.

Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 3 : 0 : ✓ When applied for,
 Special ... £ 48 : 15 : ✓ 4 July 1924
 Donkey Boiler Fee ... £ : : ✓ When received,
 Travelling Expenses (if any) £ : : ✓ 1924

Committee's Minute

Assigned

FRI. 11 JUL 1924
 + L.M.C. 7.24 CL



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