

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

20 MAR 1925

Date of writing Report 6/3/1925 When handed in at Local Office 9/3/1925 Port of Middlesbrough
 No. in Survey held at Middlesbrough Date, First Survey 14 September 1924 Last Survey 5-3-1925
 Reg. Book. 90944 on the Steel Screw Steamer "Lynebridge" (Number of Visits 31)
 SUPP. Hawerton Hill Tons { Gross 4442
 Built at -on- Leas By whom built Furness S. B. Coy. Ltd. Yard No. 78 Net 2748
 Engines made at Middlesbrough By whom made Richardsons Westgarth & Co. Ltd. Engine No. 2569 when made 1925
 Boilers made at Middlesbrough By whom made do Boiler No. 2569 when made 1925
 Registered Horse Power ✓ Owners North of England S/S Co. Ltd Port belonging to West Hartlepool
 Nom. Horse Power as per Rule 382 376 Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted yes
 Trade for which Vessel is intended ✓

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 60
 Dia. of Cylinders 25½, 42, 69 Length of Stroke 48 No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 13.508 Crank pin dia. 14 Crank webs Mid. length breadth 20.75 Thickness parallel to axis 8.5
 Intermediate Shafts, diameter as fitted 14.00 Thrust shaft, diameter at collars as per Rule 13.508 Thickness around eye-hole 6.125
 Tube Shafts, diameter as fitted 13.3/32 {Old Rules} Is the {screw} shaft fitted with a continuous liner yes
 Screw Shaft, diameter as per Rule 14.39 Is the {screw} shaft fitted with a continuous liner yes
 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 yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner one length
 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 tight fit
 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 no Length of Bearing in Stern Bush next to and supporting propeller 5-0
 Propeller, dia. 17-6 Pitch 17-6 No. of Blades 4 Material C-1 whether Moveable Solid Total Developed Surface 98.54 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 3¼ Stroke 27 Can one be overhauled while the other is at work yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 3¾ Stroke 27 Can one be overhauled while the other is at work yes
 Feed Pumps {No. and size One 6" x 4¼" x 6" Duplex Pumps connected to the {No. and size One, 9" x 10" x 10" Duplex
 How driven Steam Main Bilge Line How driven Steam
 Ballast Pumps, No. and size One, 9" x 10" x 10" Duplex 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 2 - 3" dia ER & 2 - 3" dia BR.
 In Holds, &c. No 1, 2 - 3", No 2, 2 - 3½", No 3, 2 - 3", No 4, one 3", Tunnel well 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, 4½" 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 B Off Cocks fitted with a spigot and brass covering plate yes
 What Pipes are carried through the bunkers ford Suctions How are they protected wood 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 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 See Hull Rpt Is it fitted with a watertight door yes worked from Main Deck Level

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 6058.76
 Is Forced Draft fitted no No. and Description of Boilers Two Single Ended Working Pressure 180 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes
 IS A DONKEY BOILER FITTED? yes If so, is a report now forwarded? yes
 PLANS. Are approved plans forwarded herewith for Shafting ✓ Main Boilers yes Auxiliary Boilers ✓ Donkey Boilers yes
 Superheaters ✓ General Pumping Arrangements With Hull Report Oil fuel Burning Piping Arrangements ✓

SPARE GEAR. State the articles supplied:—2 Con Rod Top End Bolts, 2 Con Rod Bottom end
bolts, 2 main bearing bolts, one set of Coupling bolts, one set
of feed and bilge pump valves, 12 Junk Ring bolts, a quantity of
assorted bolts & nuts & iron, Propeller, Screw Shaft, 8 boiler tubes,
3 condenser tubes, one main feed check valve and one auxiliary feed
check valve, 2 Safety valve springs.

The foregoing is a correct description,
 For RICHARDSONS, WESTGARTH & Co. LIMITED

J. V. Morgan

Manufacturer.

MANAGER, MIDDLESBROUGH WORKS.



© 2020

Lloyd's Register
 Foundation

W92-0084

1924.
 During progress of work in shops - - -
 Dates of Survey while building
 During erection of board vessel - - -
 Total No. of visits 31

1924.
 Sep. 4. 20. 25. Oct. 3. 8. 15. 21. 24. Nov. 5. 10. 24. 25. 28. Dec. 1. 5. 10. 13. 23. 1925.
 Jan. 5. 9. 19. 22. 24. Feb.

9. 12. 16. 18. 20. 24. Mar. 5.

Dates of Examination of principal parts—Cylinders 10-12-24 Slides 23-12-24 Covers 10-12-24
 Pistons 28-11-24 Piston Rods 23-12-24 Connecting rods 28-11-24
 Crank shaft 15/10/24. West Hartlepool Thrust shaft 5-1-24 Intermediate shafts 5 & 19-1-25.
 Tube shaft ✓ Screw shaft 19-1-25 Propeller 19-1-25
 Stern tube 9-1-25 Engine and boiler seatings 23-1-25 Engines holding down bolts 12-2-25
 Completion of pumping arrangements 24-2-25 Boilers fixed 12-2-25 Engines tried under steam 24-2-25
 Main boiler safety valves adjusted (185 lbs) 24-2-25 Thickness of adjusting washers 3/8"
 Crank shaft material S.M. INGOT STEEL Identification Mark NO. 5426. Thrust shaft material S.M. INGOT STEEL Identification Mark 5458 MB
 Intermediate shafts, material SM INGOT STEEL Identification Marks 5461/2/3/4/5 Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material SM INGOT STEEL Identification Mark 5459 MB MB & WHR, 155 WHR Steam Pipes, material L.W. Steel Test pressure 540 lbs Date of Test 12-11-24
 Is an installation fitted for burning oil fuel ✓ 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. The materials and workmanship are good, the boilers were tested by hydraulic pressure.

The engines boilers and auxiliaries were examined under steam and found satisfactory.

In my opinion this vessel is eligible for the notation of + LMC 3-25.

Note: Electric light & wireless fitted.

It is submitted that
 this vessel is eligible for
 THE RECORD. + LMC 3. 25. CL.

The amount of Entry Fee ... £ 5 : 0 :
 Special ... £ 82 : 0 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 19. 3. 1925.
 When received, 26. 3. 1925.

W. A. Roberts
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 24 MAR 1925

Assigned

+ LMC 3. 25

CERTIFICATE WRITTEN



© 2020

Lloyd's Register
 Foundation