

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

4 JUN 1934

Date of writing Report 24 June 1934 When handed in at Local Office 19 Port of Sunderland
 No. in Survey held at Sunderland Date, First Survey 5th March Last Survey 1st June 1934
 Reg. Book: S/S "LONDON TRADER" (Number of Visits 28)
 Built at Newcastle By whom built R. & W. Hawthorn Leslie & Co Yard No. 594 When built 1934
 Engines made at Sunderland By whom made North Eastern Mar. Engrs Engine No. 2809 when made 1934
 Boilers made at Sunderland By whom made North Eastern Mar. Engrs Boiler No. 2809 when made 1934
 Registered Horse Power _____ Owners Free Trade Wharf Co Ltd Port belonging to London
 Nom. Horse Power as per Rule 103 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Yes.
 Trade for which Vessel is intended Coasting.

ENGINES, &c.—Description of Engines. Triple Expansion. Revs. per minute 82.
 Dia. of Cylinders 13 1/2" - 23" - 38" Length of Stroke 24" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 4.5" Crank pin dia. 4 1/8" Crank webs Mid. length breadth 1 1/4" Thickness parallel to axis 4 13/16"
 as fitted 4 1/8" Mid. length thickness 4 13/16" Thickness around eye-hole 3 15/16"
 Intermediate Shafts, diameter as per Rule 4.15" Thrust shaft, diameter at collars as per Rule 4.5"
 as fitted 4 3/8" as fitted 4 1/8"
 Tube Shafts, diameter as per Rule _____ Screw Shaft, diameter as per Rule 8.02" Is the inboard shaft fitted with a continuous liner Yes.
 as fitted _____ as fitted 8 1/2" Is the screw shaft fitted with a continuous liner _____
 Bronze Liners, thickness in way of bushes as per Rule .539" Thickness between bushes as per Rule .404" Is the after end of the liner made watertight in the
 as fitted 9/16" as fitted 1/2" 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 2'-10"
 Propeller, dia. 10'-6" Pitch 12'-9 5/8" No. of Blades 4 Material C.I. whether Moveable no. Total Developed Surface 39.5 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 2 1/4" Stroke 15" Can one be overhauled while the other is at work Yes.
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 1/4" Stroke 15" Can one be overhauled while the other is at work Yes.
 Feed Pumps No. and size Two 5 1/2" x 3 1/2" x 5" Pumps connected to the Main Bilge Line No. and size One 6 1/2" x 5" x 6"
 How driven Steam How driven Steam
 Ballast Pumps, No. and size one 6 1/2" x 5" x 6" 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 1/2" in aft well 2 @ 2 1/2" in Boiler Room.
 In Holds, &c. 2 @ 2" in N°1 Hold 2 @ 3" in N°2 Hold.

Main Water Circulating Pump Direct Bilge Suctions, No. and size one 4" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size one 3" 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 Blow Off Cocks fitted with a spigot and brass covering plate Yes.
 What Pipes pass through the bunkers Hold Suctions How are they protected wood casing.
 What pipes pass through the deep tanks none. 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 none. Is it fitted with a watertight door _____ worked from _____

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 1800 f
 Is Forced Draft fitted no. No. and Description of Boilers Two S.B. Working Pressure 200
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.
 IS A DONKEY BOILER FITTED? no. If so, is a report now forwarded? _____

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

SPARE GEAR. State the articles supplied:— 1 C.I. Propeller. 2 Bottom End bolts & nuts. 2 Top End bolts & nuts. 2 main bearing bolts & nuts. 6 Coupling bolts & nuts. 2 Feed pump valves & seats. 2 Bilge pump valves & seats. 1/2 Cwt. assorted iron plate. 1/2 Cwt. assorted iron bar. 50 assorted bolts & nuts. 6 junk ring bolts & nuts. one pair bottom end brasses. one air pump rod & nut. 6 plain boiler tubes.

The foregoing is a correct description,
 FOR THE NORTH EASTERN MARINE ENGINEERING CO. LD.

Arthur J. Barry.
 MANAGER

Manufacturer.



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Lloyd's Register
 Foundation

W 53-0062

During progress of work in shops - - March 5. 7. 15. 16. 19. 21. 23. 28. April 4. 6. 11. 13. 16. 18. 20. 24. 24. 30. May 9. 10. 16. 18. 23.
 Dates of Survey while building - - - - - 25. 26. 29. 30. June. 1.
 During erection on board vessel - - -
 Total No. of visits 28.

Dates of Examination of principal parts—Cylinders April 18. 24 May 9. Slides 7. 5. 34. 11. 5. 34 Covers 4. 5. 34.
 Pistons Apr. 18. 27. Piston Rods 7. 5. 34. Connecting rods 7. 5. 34.
 Crank shaft Apr. 11. 16. May 24. Thrust shaft 24. 4. 34. Intermediate shafts 24. 4. 34.
 Tube shaft ✓ Screw shaft 4. 5. 34. 9. 5. 34. Propeller 9. 5. 34. & Nwe. Rpt.
 Stern tube 7. 5. 34 & Nwe Rpt. Engine and boiler seatings 28. 5. 34 Engines holding down bolts 28. 5. 34.
 Completion of fitting sea connections see Newcastle Report.
 Completion of pumping arrangements 1. 6. 34. Boilers fixed 28. 5. 34. Engines tried under steam 1. 6. 34.
 Main boiler safety valves adjusted 1. 6. 34. Thickness of adjusting washers Port Bl. F 5/16" Std Bl. F 7/16" A 3/8"
 Crank shaft material Steel Identification Mark No 4230 WHF 24. 4. 34 Thrust shaft material Steel Identification Mark No 4230 WHF 24. 4. 34
 Intermediate shafts, material Steel Identification Mark No 4230 WHF 24. 4. 34 Tube shaft, material ✓ Identification Mark J 25. 5. 34
 Screw shaft, material Steel Identification Mark No 4230 WHF 9/5/34 Steam Pipes, material S.D. Steel Test pressure 600. Date of Test 17. 5. 34
 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 built under Special Survey in accordance with the Rules of the Society.
 The materials & workmanship are good.
 The machinery has been securely fitted on board the vessel & tried under steam with satisfactory results & is reliable in my opinion, to have notation $\Delta^{\frac{1}{2}}$ L.M.C. '6. 34 T.S. (CL).

The amount of Entry Fee ... £ 3 : - : When applied for,
 Special ... £ 25 : 15 : 19...
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 9. 6. 1934

W. H. Haser.
 Engineer Surveyor to Lloyd's Register of Shipping,

Committee's Minute FILED 15 JUN 1934 TUE, 26 JUN 1934

Assigned *See 76-47 + C.M.C. 6. 34*

