

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

3 JUL 1926

NEWCASTLE ON TYNE

Date of writing Report 19 1926 When handed in at Local Office July 5th 1926 Port of Newcastle-on-Tyne

No. in Survey held at Newcastle-on-Tyne Date, First Survey February 1st Last Survey June 15th 1926
 Reg. Book. 38973 on the STEEL SC. EWELL (Number of Visits 22)

Gross Tons 1360
 Net Tons 1062

Built at Burntisland By whom built Burntisland S.S. Co. Ltd. Yard No. 138 When built 1916

Engines made at Newcastle By whom made North Eastern Marine Eng. Co. Ltd. Engine No. 2624 when made 1916

Boilers made at Newcastle By whom made North Eastern Marine Eng. Co. Ltd. Boiler No. 2624 when made 1916

Registered Horse Power _____ Owners The Wandsworth, Wimbledon & Epsom District Gas Co. Port belonging to London

Nom. Horse Power as per Rule 156 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.

Trade for which Vessel is intended Ocean-going

ENGINES, &c.—Description of Engines Inverted triple expansion Revs. per minute _____

Dia. of Cylinders 17" 28" 46" Length of Stroke 33" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals 8.98" Crank pin dia. 9.4" Crank webs 15" Mid. length breadth 5.34" Thickness parallel to axis 5.34"
 as fitted 9.4" Mid. length thickness 5.34" shrunk Thickness around eye-hole 4.8"

Intermediate Shafts, diameter 8.559" Thrust shaft, diameter at collars 8.98"
 as fitted 9" as fitted 9.4"

Tube Shafts, diameter _____ Screw Shaft, diameter 9.6" Is the { tube } shaft fitted with a continuous liner { Yes }
 as fitted _____ as fitted 10.8" as fitted _____

Bronze Liners, thickness in way of bushes 55" Thickness between bushes 19" Is the after end of the liner made watertight in the
 as fitted 32" as fitted 32" 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 _____

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 shaft _____

Length of Bearing in Stern Bush next to and supporting propeller 48"

Propeller, dia. 12'-6" Pitch 12'-6" No. of Blades 4 Material _____ whether Movable No. Total Developed Surface 48 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 2 1/2" Stroke 16 1/2" Can one be overhauled while the other is at work Yes

Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 1/2" Stroke 16 1/2" Can one be overhauled while the other is at work Yes

Aux. Feed Pumps { No. and size one duplex 5" x 3 1/2" x 6" Aux. Pumps connected to the { No. and size one 10" x 11" x 10" }
 How driven Steam Main Bilge Line How driven Steam

Ballast Pumps, No. and size one 10" x 11" x 10" Lubricating Oil Pumps, including Spare Pump, No. and size none

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 Three 2 1/2" 1 - 3 1/2"

In Holds, &c. No. 1 Hold two 2 1/2" No. 2 Hold two 3"

Main Water Circulating Pump Direct Bilge Suctions, No. and size one 5" Independent Power Pump Direct Suctions to the Engine Room Bilges, _____

No. and size 1 - 3 1/2" dia. see plan. 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 both

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 _____

What pipes pass through the deep tanks _____ Have they been tested as per Rule _____

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 5) Total Heating Surface of Boilers 2738 sq. ft.

Is Forced Draft fitted No. No. and Description of Boilers one single and cyl. multi Working Pressure 180 lbs

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 _____ Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:— 2 Bottom End Bolts + nuts; 2 Top End Bolts + nuts; 2 main Bearing Bolts + nuts; 6 Coupling Bolts and nuts; half set coach springs for piston rings; 2 Feed pump valves; 2 Bilge pump valves; propeller; assorted bolts, nuts plates bars.

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

W. Humphreys
 SECRETARY.

Manufacturer.



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 Foundation

010246-010253-0192

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

8.2

1926: - Feb. 11. 17. 18. 22. Mar. 4. 9. 19. 22. 25. 26. Apr. 7. 13. 19.

20. 21. 26. May. 3. 6. 11. June 10. 11. 15.

+ 30 see below

Dates of Survey while building } During progress of work in shops - - } During erection on board vessel - - - }

Total No. of visits 22.

Dates of Examination of principal parts - Cylinders 22.3.26 Slides 19.3.26 Covers 22.3.26
Pistons 26.4.26 Piston Rods 19.3.26 Connecting rods 19.3.26
Crank shaft 22.3.26 Thrust shaft 11.2.26 Intermediate shafts ✓
Tube shaft ✓ Screw shaft 22.3.26 + 21.4.26 Propeller 3.5.26
Stern tube 11.5.26 AT BURNTISLAND Engine and boiler seatings 20.5.26 AT BURNTISLAND Engines holding down bolts 11.6.26
Completion of pumping arrangements 30.6.26 Boilers fixed 11.6.26 Engines tried under steam 30.6.26
Main boiler safety valves adjusted 30.6.26 Thickness of adjusting washers 1 1/16" 5 1/2"
Crank shaft material S.M. Ingot Steel Identification Mark 7401 N. Thrust shaft material S.M. Ingot Steel Identification Mark 7401 N.
Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓ 11.5.26
Screw shaft, material S.M. Ingot Steel Identification Mark 7401 N. Steam Pipes, material S.D. Steel Test pressure 540 lbs ✓ Date of Test 15.6.26
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.)

The machinery of this vessel has been constructed under special survey. The materials and workmanship are sound and good. It has been efficiently installed on board the vessel and tried out under steam at a morning trial. In my opinion this vessel is now eligible for notation in the Society's Register Book + L.M.C. 7.26 C.L.

It is submitted that this vessel is eligible for THE RECORD. + LMC 6.26. CL.

Handwritten signature and date 10/7/26

Handwritten signature R. Lee Anness, Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 3 : - : When applied for,
Special ... £ 39 : - : 8 JULY 1926
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 16 July 1926

Committee's Minute

TUES. 13 JUL 1926

Assigned

+ LMC 6:26

C.R.

CERTIFICATE WRITTEN



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