

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

No. 77717

Date of writing Report 19 When handed in at Local Office 2/4/1924 Port of NEWCASTLE-ON-TYNE
 Received at London Office THE 3rd APR 1924
 No. in Survey held at Newcastle Date, First Survey 24th April 1923 Last Survey 2nd April 1924
 Reg. Book. 39579 on the JAMESON (Number of Visits 45)
 Built at Newcastle By whom built W. Dobson & Co. Ltd. Yard No. 221 Tons Gross 3520 Net 2150
 Engines made at Newcastle By whom made North Eastern Marine Eng. Co. Ltd. Engine No. 2527 When built 1924
 Boilers made at Newcastle By whom made North Eastern Marine Eng. Co. Ltd. Boiler No. 2527 when made 1924
 Registered Horse Power Owners Kaye Str. Nav. Co. Ltd. Port belonging to London
 Nom. Horse Power as per Rule 370 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines *Inverted Triple Expansion*
 Dia. of Cylinders 25" 41" 68" Length of Stroke 45" Revs. per minute 58 1/2 No. of Cylinders 3 No. of Cranks 3
 Dia. of Crank shaft journals as per rule 13.02" as fitted 12 3/4" Dia. of Crank pin 13 3/4" Crank webs Mid. length breadth 20 3/4" Thinned Thickness parallel to axis 8 3/16" Mid. length thickness 8 3/16" shrunk Thickness around eye-hole 6 5/8"
 Diameter of Thrust shaft under collars as per rule 13.02" as fitted 12 3/4" Diameter of Tunnel shaft as per rule 12.11" as fitted 12 1/2" Diameter of Screw shaft as per rule 14.29" as fitted 14 3/8" 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 Yes 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 Yes
 If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated No
 Pitch of Propeller 19'0" No. of Blades 4 State whether Moveable No Total Surface 100 square feet
 No. of Feed Pumps fitted to the Main Engines None Diameter of ditto Stroke Can one be overhauled while the other is at work Yes
 No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work Yes
 Total number and size of power driven Feed and Bilge Auxiliary Pumps 4 - Two Halls' Feed 1 Ballast 9" x 11" x 10" 1 Duplex Feed 7 1/2" x 5" x 6"
 No. and size of Pumps connected to the Main Bilge Line 3 Main Engine rams 4" x 24" Ballast 9" x 11" x 10"
 No. and size of Ballast Pumps One 9" x 11" x 10" No. and size of Lubricating Oil Pumps, including Spare Pump None
 Are two independent means arranged for circulating water through the Oil Cooler Yes No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3 - 2 3/4" and in Holds, &c. No. 1. Hold 2 - 2 3/4"; No. 2. Hold 2 - 3 1/4"; No. 3. Hold 2 - 2 3/4"; No. 4. Hold 2 - 2 3/4"; Tunnel well 1 - 2 3/4"

No. and size of Main Water Circulating Pump Bilge Suctions One 8" No. and size of Donkey Pump Direct Suctions to the Engine Room Bilges One 4 1/4" 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
 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 Forward Bilge Suctions How are they protected Wood-Cased
 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 Yes Is it fitted with a watertight door Yes worked from

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 6165 sq ft
 Forced Draft fitted No No. and Description of Boilers 3 Single-End Cyl. Mult. 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 No Main Boilers Yes Auxiliary Boilers None Donkey Boilers
 General Pumping Arrangements See Ship Report Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:—
 One Propeller shaft 50 Condenser ferrules Impeller shaft for circulating pump
 One C.I. propeller 10 Condenser tubes Main bearings for pump
 2 Bottom end Bolts & nuts One set Aux. Feed pump valves
 2 Top end Bolts & nuts One set Ballast pump valves
 2 Main Bearing Bolts & nuts One set Main Feed pump valves
 6 Coupling Bolts 12 piston Bolts
 1/2 set Coach Springs for piston rings 2 Thrust pads
 2 Bilge pump valves Assorted Bolts, nuts & screw.

The foregoing is a correct description
 THE NORTH EASTERN MARINE ENGINEERING Co., LTD.
 J. J. Harrison
 Secretary.

Manufacturer.



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 Lloyd's Register
 Foundation
 W443-0017

1923
 Apr. 24. 30. May 5. 7. 17. June 1. 7. 12. 20. July 3. 12. 27. Aug. 3. 14. 16. 22. 29. Sep. 7. 18. Oct. 5. 16. 26.
 1924
 Nov. 8. 20. 30. Dec. 12. 14. 19. Jan. 3. 7. 10. 18. 22. 28. 31. Feb. 5. 7. 21. 29. Mar. 3. 5. 6. 11. 28. Apr. 2.

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits 45

Dates of Examination of principal parts - Cylinders 18. 8. 23 3. 1. 24 Slides 31. 1. 24
 Covers 3. 1. 24 Pistons 7. 1. 24 Rods 7. 5. 23
 Connecting rods 3. 7. 23 Crank shaft 27. 7. 23 Thrust shaft 17. 5. 23
 Tunnel shafts 3. 7. 23 Screw shaft 18. 9. 23 Propeller 21. 2. 24
 Stern tube 30. 11. 23 Engine and boiler seatings 31. 1. 24 Engines holding down bolts 5. 3. 24
 Completion of pumping arrangements 11. 3. 24 Boilers fixed 29. 2. 24 Engines tried under steam 11. 3. 24
 Completion of fitting sea connections 31. 1. 24 Stern tube 31. 1. 24 Screw shaft and propeller 29. 2. 24
 Main boiler safety valves adjusted 11. 3. 24 Thickness of adjusting washers for Bl. P 1/16" S 13/32" Centre Bl. P 1/16" Stan Bl. P 1/32" S 1/4"
 Material of Crank shaft S. M. Steel Identification Mark on Do. 6495 N. M.R.
 Material of Thrust shaft S. M. Steel Identification Mark on Do. 6493 N. R.L.A.
 Material of Tunnel shafts S. M. Steel Identification Marks on Do. 6493 N. R.L.A.
 Material of Screw shafts S. M. Steel Identification Marks on Do. 6493 N. M.R.
 Material of Steam Pipes S. M. Steel Test pressure 540 lbs/sq. in. Date of Test 3. 3. 24 6. 3. 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. *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 and the main and auxiliary machinery have been tried out at a moving trial with satisfactory results. The vessel is eligible, in my opinion, for notation in the Society's Register Book.* * L.M.C.H. 24 C.L.

It is submitted that
 this vessel is eligible for
THE RECORD. + LMC 4. 24. CL.

[Signature]
 4/4/24

[Signature]
 R. Lee Burnett
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 80 : 10 When applied for, 28/3/1924
 Special ... £ 5 : : :
 Donkey Boiler Fee ... £ : : :
 Travelling Expenses (if any) £ : : : 28/3/1924

Committee's Minute TUE. APR. 1924
 Assigned + L.M.C.H. 4. 24
C.L.

Certificate to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute.