

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

No. 77617

TUE. 4 MAR. 1924

Received at London Office

Date of writing Report 19 1/3/24 When handed in at Local Office 1/3/24 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle Date, First Survey 24th April 1923 Last Survey 22nd February 1924
 Reg. Book. 40371 on the Steel Ss. OVERSTONE (Number of Visits 35) Tons { Gross 5205
 Net 3747

Built at Newcastle By whom built Northumberland S. B. Co. Ltd. Yard No. 384 When built 1924

Engines made at Newcastle By whom made North Eastern Marine Eng. Co. Ltd. Engine No. 2545 when made 1924

Boilers made at do. By whom made do. Boiler No. do. when made 1924

Registered Horse Power _____ Owners (J. B. Radcliffe & Co. Mgrs.) Port belonging to Cardiff.

Nom. Horse Power as per Rule 381 ✓ 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 48" ✓ Revs. per minute 600 ✓ No. of Cylinders 3 ✓ No. of Cranks 3 ✓

Dia. of Crank shaft journals as per rule 13.33" ✓ Dia. of Crank pin 14" ✓ Crank webs Mid. length breadth 22 3/4" ✓ Thickness parallel to axis 8 1/4" ✓
as fitted 14" ✓ Mid. length thickness 8 1/4" ✓ shrunk Thickness around eye-hole 6 1/2" ✓

Diameter of Thrust shaft under collars as per rule 13.33" ✓ Diameter of Tunnel shaft as per rule 12.695" ✓ Diameter of Screw shaft as per rule 14.18" ✓ Is the Screw shaft
as fitted 14" ✓ as fitted 13 1/4" ✓ as fitted 15 1/2" ✓

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 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 appliance fitted at the after end of the shaft to permit of it being efficiently lubricated no ✓ Length of Stern Bush 5'-6" ✓ Diameter of Propeller 17'-3" ✓

Pitch of Propeller 17'-3" ✓ No. of Blades Four ✓ State whether Moveable no ✓ Total Surface 92 sq ✓ square feet.

No. of Feed Pumps fitted to the Main Engines Two ✓ Diameter of ditto 4" ✓ Stroke 26" ✓ Can one be overhauled while the other is at work Yes ✓

No. of Bilge Pumps fitted to the Main Engines Two ✓ Diameter of ditto 4 1/2" ✓ Stroke 26" ✓ Can one be overhauled while the other is at work Yes ✓

Total number and size of power driven Feed and Bilge Auxiliary Pumps Four—One 7" x 5" x 8" Feed, — One 6" x 4" x 8" Bilge Feed — One 9" x 11" x 10" Ballast — One 7" x 7" x 8" Donkey. Cyl.?

No. and size of Pumps connected to the Main Bilge Line 2 Main Engines One Ballast pump ✓

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 _____ No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room Two 3 1/2" ✓ and in Holds, &c. No. 1 Hold Two 3", No. 2 Hold and Cross Bunker Two 3 1/2" No. 3 Hold Two 3" No. 4 Hold Two 3" Tunnel well One 2 1/2" ✓

No. and size of Main Water Circulating Pump Bilge Suctions One 9" ✓ No. and size of Donkey Pump Direct Suctions to the Engine Room Bilges One 4 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 below ✓

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 casing ✓

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 Steering Eng. Platform

MAIN BOILERS, &c.—(Letter for record 5 ✓) Total Heating Surface of Boilers 6330 sq ✓

Forced Draft fitted no ✓ No. and Description of Boilers 3 Single End Cyl. Mull. 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 _____ Donkey Boilers _____

(If not state date of approval)

General Pumping Arrangements See Ship Report Oil fuel Burning Piping Arrangements None ✓

SPARE GEAR. State the articles supplied:— 2 Top End Bolts & Nuts - 2 Bottom End Bolts & Nuts - 2 Main Bearing Bolts
One Set Coupling Bolts. Set of feed & bilge pump valves. Quantity of assorted Bolts Nuts & iron
Cast Iron Propeller - Screw Shaft - 50 Condenser females - 3 Condenser tubes - 12 piston bolts - 6 Crank tubes
Set pump valves for ballast donkey - set pump valves for feed donkey -

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



1923
 Apr. 24 May 7 June 20 July 5 9 12 27 Aug. 15 16 22 28 29 31 Sep. 7 17 18 25 Oct. 2 5 16 26 Nov. 1923
 During progress of work in shops - - -
 1924
 7 8 20 23 Dec. 4 5 11 21 Jan. 30 Feb. 12 15 18 22
 During erection on board vessel - - -
 Total No. of visits **35**

Dates of Examination of principal parts - Cylinders **23-11-23** Slides **23-11-23**
 Covers **23-11-23** Pistons **16-10-23** Rods **16-10-23**
 Connecting rods **16-8-23** Crank shaft **26-9-23** Thrust shaft **24-4-23**
 Tunnel shafts **27-7-23** Screw shaft **31-8-23** Propeller **26-9-23**
 Stern tube **4-12-23** Engine and boiler seatings **30-1-24** Engines holding down bolts **18-2-24**
 Completion of pumping arrangements **22-2-24** Boilers fixed **18-2-24** Engines tried under steam **22-2-24**
 Completion of fitting sea connections **30-1-24** Stern tube **30-1-24** Screw shaft and propeller **30-1-24**
 Main boiler safety valves adjusted **22-2-24** Thickness of adjusting washers **BOT. BLK. P+S. 7/16 CENTRE BLK. P+S. 5/16 STAR. BLK. P+S. 7/16**
 Material of Crank shaft **S.M. STEEL** Identification Mark on Do. **6534 N.**
 Material of Thrust shaft **S.M. STEEL** Identification Mark on Do. **6534 N.**
 Material of Tunnel shafts **S.M. STEEL** Identification Marks on Do. **6534 N.**
 Material of Screw shafts **S.M. STEEL** Identification Marks on Do. **6534 N.**
 Material of Steam Pipes **S.D. Copper** ✓ Test pressure **360 lbs. sq. in.** ✓ Date of Test **15.2.24**
 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 **Yes** ✓ If so, state name of vessel **"Snowdon" (C 2541)**

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The machinery of this vessel has been constructed under Special Survey. The workmanship & materials are good and good. It was efficiently installed on board and tried out under steam with satisfactory results. The Boiler Safety valves were adjusted under steam. In my opinion the vessel is eligible for record - L.M.C.Z. 24. C.L. in the Society's Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 2.24. CL.

[Signature]
 6/3/24

The amount of Entry Fee ... £ **5** : - :
 Special ... £ **82** : **3** : -
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, **3 MAR 1924**
 When received, **7 MAR 1924**

Committee's Minute **COINAD 7 1924**
 Assigned **+ L.M.C.Z. 2, 24**
C.L.

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

FRI. MAR 14 1924



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NEWCASTLE-ON-TYNE

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