

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 23 AUG 1924

Date of writing Report 19 When handed in at Local Office 9/8/19 24 Port of **NEWCASTLE-ON-TYNE**
 No. in Survey held at *Wallend* Date, First Survey 31st March 1924 Last Survey 8th August 19 24
 Reg. Book. 90661 on the *Steel Co.* **SENTRY** (Number of Visits 21)
 Built at *Newcastle* By whom built *Tyne Iron & S. Co. Ltd.* Yard No. 228 Tons } Gross 1036
 Engines made at *Newcastle* By whom made *North Eastern Marine Eng. Co. Ltd.* Engine No. 2582 when built 1924 } Net 495
 Boilers made at *Newcastle* By whom made *North Eastern Marine Eng. Co. Ltd.* Boiler No. 2582 when made 1924
 Registered Horse Power Owners *Fisher, Kenwick, Manchester - London Steamers Ltd.* Port belonging to *Manchester*
 Nom. Horse Power as per Rule 193 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines *Inverted Triple Expansion*
 Length of Stroke 33" Revs. per minute No. of Cylinders 3 No. of Cranks 3
 Shaft journals as per rule 9.46" 9.34" Dia. of Crank pin 9.5" Crank webs Mid. length breadth 16" Thickness parallel to axis 5.15"
 as fitted 9.5" Mid. length thickness 5.15" shrunk Thickness around eye-hole 4.76"
 Rust shaft under collars as per rule 9.46" Diameter of Tunnel shaft as per rule 9.014" 8-90 New Rule as per rule 10.17" 9.94
 as fitted 9.4" Diameter of Screw shaft as fitted 10.5" Is the Screw shaft
 Continuous liner the whole length of the stern tube Yes Is the after end of the liner made watertight in the propeller boss Yes
 In more than one length are the joints burned If the liner does not fit tightly at the part
 rings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive
 Are the shafts fitted, is the shaft lapped or protected between the liners Is an approved appliance fitted at the after end of the shaft to permit
 freely lubricated No Length of Stern Bush 45" Diameter of Propeller 12'-6"
 Diameter of Propeller 12'-6" No. of Blades 4 State whether Movable No Total Surface 48 sq square feet.
 Pumps fitted to the Main Engines 2 Diameter of ditto 3" Stroke 16 1/2" Can one be overhauled while the other is at work Yes
 Pumps fitted to the Main Engines 2 Diameter of ditto 3" Stroke 16 1/2" Can one be overhauled while the other is at work Yes
 Size of power driven Feed and Bilge Auxiliary Pumps *100-Jed 7x8 1/2 x 8" - Ballast 6x8 1/2 x 8"*
 Pumps connected to the Main Bilge Line 2 *Main Engine Rams - Ballast Pump*
 Ballast Pumps *One - 6x8 1/2 x 8"* No. and size of Lubricating Oil Pumps, including Spare Pump *None*
 Means arranged for circulating water through the Oil Cooler No. and size of suction connections connected to both Main Bilge Pumps and Auxiliary
 In Engine and Boiler Room 2-2 1/4" and in Holds, &c. *No. 1 Hold 2-2 1/4"*
Hold 2-2 1/4" After Hold 2-2 1/2" Tunnel well 1-2 1/2"

BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 3560 sq ft
 Draft fitted No No. and Description of Boilers 2 *Single End. Cyl. Mult.* Working Pressure 180 lbs/sq in

REPORT ON MAIN BOILERS NOW FORWARDED? Yes
DONKEY BOILER FITTED? If so, is a report now forwarded?
 Are approved plans forwarded herewith for Shafting Main Boilers Yes Auxiliary Boilers Donkey Boilers
 (If not state date of approval)

GEAR. State the articles supplied:—*One Cast Iron Propeller Two Bottom End Bolts + Nuts*
Two Main Bolts and Nuts, Two Main Bearing Bolts and Nuts, Six Coupling Bolts and Nuts,
Pump Valves, 2 Bilge Pump Valves, Assorted Bolts Nuts and Iron.

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

Manufacturer.

003846-003851-0272

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1924
 Mar. 31. Apr. 10. 19. 20. 26. 28. 29. June 5. 11. 12. 13. 16. 17. 19. 20. July 1. 4. 11. 15. 21. Aug. 8.

Dates of Survey while building
 During progress of work in shops --
 During erection on board vessel ---
 Total No. of visits **21**

Dates of Examination of principal parts—Cylinders	12. 6. 24	Slides	20. 6. 24
Covers	12. 6. 24	Pistons	20. 6. 24
Connecting rods	20. 6. 24	Crank shaft	29. 5. 24
Tunnel shafts	29. 5. 24	Screw shaft	29. 5. 24
Stern tube	19. 6. 24	Engine and boiler seatings	14. 7. 24
Completion of pumping arrangements	15. 7. 24	Boilers fixed	11. 7. 24
Completion of fitting sea connections	17. 6. 24	Stern tube	17. 6. 24
Main boiler safety valves adjusted	15. 7. 24	Thrust shaft	20. 5. 24
Material of Crank shaft	S. M. Steel	Propeller	20. 6. 24
Material of Thrust shaft	S. M. Steel	Engines holding down bolts	11. 7. 24
Material of Tunnel shafts	S. M. Steel	Engines tried under steam	15. 7. 24
Material of Screw shafts	S. M. Steel	Screw shaft and propeller	4. 7. 24
Material of Steam Pipes	Solid Drawn Steel ✓	Thickness of adjusting washers	Port Boiler $P \frac{7}{16} S \frac{15}{32}$ Star Boiler $P \frac{7}{16} S \frac{8}{32}$
Is an installation fitted for burning oil fuel	No. ✓	Identification Mark on Do.	6845N.
Have the requirements of the Rules for carrying and burning oil fuel been complied with	✓	Identification Mark on Do.	6845N
Is this machinery duplicate of a previous case	No. ✓	Identification Marks on Do.	6845N
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. The main and auxiliary machinery has been tried out under steam at a mooring trial. The Boiler's Safety valves were adjusted under steam. In my opinion this vessel is eligible for notation in the Society's Register Book.

✓ L.M.C. 8. 24 C.L.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 8. 24. C.L.

Ans. JAD.
 26/8/24

NEWCASTLE-ON-TYNE.

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

The amount of Entry Fee	... £ 3 : -	When applied for	27. AUG 1924
Special	... £ 48 : 5	When received	29. 24
Donkey Boiler Fee	... £ :		
Travelling Expenses (if any)	£ :		

R. Lee Annes.
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUES. 26 AUG 1924
 Assigned + L.M.C. 8. 24 C.L.

