

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office
 Date of writing Report 19 When handed in at Local Office 25.6.19 Port of Newcastle-on-Tyne
 No. in Survey held at Wallsend-on-Tyne Date, First Survey 3 Jan Last Survey June 1929
 Reg. Book. on the New Steel S.S. Sowerby Tower (Number of Visits 53)
 Built at Newcastle By whom built Hawthorne Leslie & Coy. Ltd. Yard No. 559 Tons Gross 4484 Net 2756
 Engines made at Wallsend By whom made North Eastern Marine & Cold Engine No. 2404 When built 1929
 Boilers made at Wallsend By whom made North Eastern Marine & Cold Boiler No. 2404 when made 1929
 Registered Horse Power 1000 Owners Mr. Milburn & Coy. Ltd. Port belonging to Newcastle
 Nom. Horse Power as per Rule 1006 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 Trade for which Vessel is intended General cargo ocean going.

ENGINES, &c.—Description of Engines Triple Expansion
 Dia. of Cylinders 25 1/2" x 42" x 40" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3 Revs. per minute
 Crank shaft, dia. of journals as per Rule 13 3/4" Crank pin dia. 13 3/4" Crank webs Mid. length breadth 1-11 1/2" Thickness parallel to axis 8 3/8" 4 3/8"
 as fitted 13 3/4" Mid. length thickness 8 3/8" shrunk Thickness around eye-hole 4 3/8"
 Intermediate Shafts, diameter as per Rule 12 3/4" Thrust shaft, diameter at collars as per Rule 13 3/4" as fitted 13 3/4"
 Tube Shafts, diameter as fitted 12 3/4" Screw Shaft, diameter as per Rule 14 3/4" as fitted 14 3/4" Is the tube screw shaft fitted with a continuous liner yes
 Bronze Liners, thickness in way of bushes as per Rule 1 3/8" Thickness between bushes as per Rule 9 1/8" 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 junctions made by fusion through the whole thickness of the liner 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 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 5'-6"
 Propeller, dia. 18'-0" Pitch 18'-0" No. of Blades 4 Material Bronze whether Moveable no Total Developed Surface 102 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 26" Can one be overhauled while the other is at work yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 4 1/2" Stroke 26" Can one be overhauled while the other is at work yes
 Feed Pumps No. and size 2 @ 4" x 9 1/2" x 21, 1 @ 6" x 4 x 6 Pumps connected to the Main Bilge Line No. and size 1 @ 9" x 11 x 10, 2 @ 4 1/2" x 9 1/2"
 How driven Steam How driven Steam by main engines
 Ballast Pumps, No. and size 1 @ 9" 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 yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps, In Engine and Boiler Room 1 @ 2 1/2" dia, 1 @ 3" dia tunnel well
 In Holds, &c. 101 2 @ 3", 102 2 @ 3", 103 2 @ 3", 104 2 @ 3".

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 9" dia Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 4" dia
 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 yes
 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 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 pass through the bunkers Bilge suction (for holds) How are they protected work casings
 What pipes pass through the deep tanks 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 yes Is it fitted with a watertight door yes worked from top platform

MAIN BOILERS, &c.—(Letter for record 3) Total Heating Surface of Boilers 1350 sq. ft.
 Is Forced Draft fitted no No. and Description of Boilers 3 Single ended (3 S.E.) Working Pressure 180 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes 3 S.B.
 IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? yes

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

SPARE GEAR. State the articles supplied:— Two each bolts & nuts for top & bottom ends & main bearings, one set feed & bilge pump valves, one set coupling bolts, assorted bolts nuts & pins, one propeller shaft, one Cast iron propeller, 1 HP piston spring, 1 set air pp valves & main & 1 donkey feed check valve lids, Spare gear for 2:1 pp, 1 set thrust pads for Mitchell thrust, 1 set air feed pp & ballast pp valves.

The foregoing is a correct description.

THE NORTH EASTERN MARINE ENGINEERING CO., LTD.

Manufacturer.

SECRETARY



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1929
Jan. 3. 11. 21. 28. 30. 31. Feb. 1. 6. 7. 8. 15. 18. 19. 26. Mar. 4. 6. 8. 11. 12. 13. 14. 21.
Apr. 3. 5. 8. 9. 10. 12. 15. 16. 17. 18. 19. 22. 24. 26. 29. 30. May 8. 10. 13. 14. 15. 17. 24.
27. 28. 30. 31. June 3. 4. 7. 24.
Total No. of visits 53.

Dates of Examination of principal parts—Cylinders 8-5-29 Slides 30-4-29 Covers 26-4-29
Pistons 15-4-29 Piston Rods 15-4-29 Connecting rods 8-5-29
Crank shaft 29-4-29 Thrust shaft 13-3-29 Intermediate shafts 22-4-29
Tube shaft 24-5-29, 13-5-29 Engine and boiler seatings 15-5-29 Engines holding down bolts 3-6-29
Completion of fitting sea connections 15-5-29
Completion of pumping arrangements 4-6-29 Boilers fixed 3-6-29 Engines tried under steam 4-6-29
Main boiler safety valves adjusted 4-6-29 Thickness of adjusting washers 20. P₁ 6 5/8", C₁ 8 5/8", P₂ 8 5/8", P₃ 8 5/8"
Crank shaft material 0.4 Steel Identification Mark 240K W.B. Thrust shaft material 0.4 Steel Identification Mark 2841 W.B.
Intermediate shafts, material 0.4 Steel Identification Marks 2841 W.B. Tube shaft, material 0.4 Steel Identification Mark 2841 W.B.
Screw shaft, material 0.4 Steel Identification Mark 2841 W.B. Steam Pipes, material 5.7 Steel Test pressure 540 lbs. Date of Test 3-6-29
Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150°F. 150

Have the requirements of the Rules for carrying and burning oil fuel been complied with Yes
Is this machinery duplicate of a previous case Yes If so, state name of vessel Benruell Yowler

General Remarks (State quality of workmanship, opinions as to class, &c.)
The machinery of this vessel has been built under Special Survey. Materials & Workmanship good. Hydraulic tests satisfactory. The whole of the machinery has been efficiently installed & fixed in the vessel & tried under steam & found to be in good & safe working condition & eligible in my opinion to be classed & have records. L.M.C. 6-29.
Sail shaft C.L. in the Register's Book.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 6-29 C-L.

4/7/29

The amount of Entry Fee ... £ 5 : 0 : 0
Special ... £ 88 : 18 : 0
Donkey Boiler Fee ... £ ...
Travelling Expenses (if any) £ ...

When applied for, 19 JUN 1929
When received, 19 JUN 1929

William Butler

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 9 JUL 1929

Assigned 4 June 29 CC

CERTIFICATE WRITTEN.



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