

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 19 When handed in at Local Office 25.6.1929 Port of Newcastle-on-Tyne  
 No. in Survey held at Wallsend-on-Tyne Date, First Survey 3<sup>rd</sup> Jan Last Survey June 21<sup>st</sup> 1929  
 Reg. Book. on the New Steel S.S. Sloopberry Tower (Number of Visits 53)  
 Built at Newcastle By whom built Hawthorne Leslie & Coy Ltd. Yard No. 559 Tons { Gross 4484  
 Engines made at Wallsend By whom made North Eastern Marine & Cold Engine No. 2404 Net 2756  
 Boilers made at Wallsend By whom made North Eastern Marine & Cold Boiler No. 2404 When built 1929  
 Registered Horse Power 4988 Owners M<sup>r</sup> Milburn & Coy Ltd. when made 1929 Port belonging to Newcastle  
 Nom. Horse Power as per Rule 498 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 Revs. per minute 3  
 Dia. of Cylinders 25 1/2" x 42" x 40" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3  
 Crank shaft, dia. of journals 13 3/4" as per Rule 13 3/4" as fitted 13 3/4" Crank pin dia. 13 3/4" Crank webs Mid. length breadth 1-11/16" Thickness parallel to axis 8 3/8"  
 Intermediate Shafts, diameter 12" as per Rule 12" as fitted 12" Thrust shaft, diameter at collars 13 3/4" as per Rule 13 3/4" as fitted 13 3/4"  
 Tube Shafts, diameter 11 3/4" as per Rule 11 3/4" as fitted 11 3/4" Screw Shaft, diameter 11 3/4" as per Rule 11 3/4" as fitted 11 3/4" Is the tube screw shaft fitted with a continuous liner yes  
 Bronze Liners, thickness in way of bushes 1 3/8" as per Rule 1 3/8" as fitted 1 3/8" Thickness between bushes 9 1/8" as per Rule 9 1/8" as fitted 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 Brass 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 26"  
 How driven Steam How driven Steam by main engines: done  
 Ballast Pumps, No. and size 1 @ 9" x 11" x 10" Lubricating Oil Pumps, including Spare Pump, No. and size done  
 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 @ 3/4" dia tunnel well.  
 In Holds, &c. no 1 @ 3", no 2 @ 3", no 3 @ 3", no 4 @ 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 (from 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 4350 sq  
 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  
 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 air pp, 1 set thrust parts for Mitchell thrust, 1 set air feed pp & ballast pp valves.

The foregoing is a correct description.

*Signature*  
THE NORTH EASTERN MARINE ENGINEERS CO. LTD.  
SECRETARY

Manufacturer.



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Lloyd's Register  
Foundation

W38-0073

05448

1929  
 During progress of work in shops -- Jan. 3, 11, 21, 25, 30, 31, Feb. 1, 6, 7, 8, 15, 18, 19, 26, Mar. 4, 6, 8, 11, 12, 13, 14, 21.  
 During erection on board vessel -- Apr. 3, 5, 9, 10, 12, 15, 16, 17, 18, 19, 22, 24, 26, 29, 30, May 8, 10, 13, 14, 15, 17, 24.  
 Dates of Survey while building -- 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 ✓ Screw shaft 22-4-29 Propeller 24-5-29  
 Stern tube 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. P<sub>1</sub> 6 5/8", C<sub>1</sub> P<sub>1</sub> 8 5/8", P<sub>1</sub> B P<sub>1</sub> 6 5/8"  
 Crank shaft material Old Steel Identification Mark 2841 WP Thrust shaft material Old Steel Identification Mark 2841 WP  
 Intermediate shafts, material Old Steel Identification Marks 2841 WP Tube shaft, material ✓ Identification Mark ✓  
 Screw shaft, material Old Steel Identification Mark 2841 WP Steam Pipes, material S.D. 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. ✓  
 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 Bennell Yauer

**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.  
 Seal 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.

J. 4/7/29

*(Faint handwritten notes, possibly bleed-through from the reverse side of the page)*

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 D. Bates  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 9 JUL 1929

Assigned Thurs 6-29 CC

CERTIFICATE WRITTEN.



Certificate to be sent to NEWCASTLE-ON-TYNE.

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