

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 25 JUL 1929

Date of writing Report Wallsend When handed in at Local Office 12-7-1929 Port of Newcastle-on-Tyne
 No. in Survey held at Wallsend Date, First Survey 22 Feb Last Survey 8 July 1929
 Reg. Book. on the New Steel S.S. "Langlecrag" (Number of Visits 35)
 Built at Tarrow By whom built Palmers & Co. & J. Boyd Yard No. 991 Tons { Gross 4909 Net 2997
 Engines made at Wallsend By whom made North Eastern Har & E L Engine No. 2696 When built 1929
 Boilers made at Wallsend By whom made North Eastern Har & E L Boiler No. 2696 when made 1929
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Nom. Horse Power as per Rule 481 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 60
 Dia. of Cylinders 24" x 40 3/4" x 40 Length of Stroke 48 No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 14 3/8 Crank pin dia. 14 3/8 Crank webs Mid. length breadth 2 1/2 Thickness parallel to axis 8 3/4
 as fitted 14 3/8 Mid. length thickness 8 3/4 shrunk Thickness around eye-hole 1 1/16
 Intermediate Shafts, diameter as per Rule _____ as fitted 13 3/8 Thrust shaft, diameter at collars as per Rule _____ as fitted 14 3/8
 Tube Shafts, diameter as per Rule _____ as fitted _____ Screw Shaft, diameter as per Rule 14 3/8 as fitted 15 3/8 Is the tube shaft fitted with a continuous liner { yes }
 Bronze Liners, thickness in way of bushes as per Rule 1/16 as fitted 1/16 Thickness between bushes as per Rule 5/32 as fitted 19/32 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 _____
 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 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 5-3"
 Propeller, dia. 18-3" Pitch 19-0" No. of Blades 4 Material Brass whether Moveable no Total Developed Surface 108 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 @ 9 1/2" x 11" x 21" wain Pumps connected to the { No. and size 1 @ 9 x 11 x 10"
 How driven Steam Main Bilge Line { How driven Steam
 Ballast Pumps, No. and size 1 @ 9 x 10 x 11 Lubricating Oil Pumps, including Spare Pump, No. and size _____
 Are two independent means arranged for circulating water through the Oil Cooler _____ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 4 @ 3"
 In Holds, &c. No 1 Hold 2 @ 2", No 2 Hold 2 @ 3 1/2", No 3 Hold 2 @ 2 1/2", No 4 Hold 2 @ 3", No 5, 2 @ 3"
 Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 9" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 5"
 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 both
 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 rod into suction How are they protected wood cased
 What pipes pass through the deep tanks _____ Have they been tested as per Rule _____
 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 S.) Total Heating Surface of Boilers 6558 ft²
 Is Forced Draft fitted yes No. and Description of Boilers Three single ended Working Pressure 225 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? _____
 PLANS. Are approved plans forwarded herewith for Shafting _____ Main Boilers yes Auxiliary Boilers _____ Donkey Boilers _____
 Superheaters _____ General Pumping Arrangements yes Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:—Two each bolts & nuts for top & bottom ends & main bearings, one set coupling bolts, 9 sets feed bilge pump valves, quantity of assorted bolts nuts & iron, 1 cast iron propeller, one set aux feed & ballast pb valves, 1 set packing for HP piston valve, 1 set thrust pads, 1 tail shaft, 1 set packing for each piston,

The foregoing is a correct description.
 THE NORTH EASTERN MARINE ENGINEERING CO., LTD.

R. Campbell
 SECRETARY

Manufacturer.



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 Foundation

1929

Feb. 22, 26. Mar. 11, 12, 13, 19, 27. Apr. 3, 4, 8, 9, 12, 16, 18, 23, 30. May 2, 7, 8, 9, 10, 13, 17, 17, 21, 23, 27, 28, 30.

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

June 7, 12, 14, 17, 19, July 8

35

Dates of Examination of principal parts—Cylinders 2-5-29 Slides 8-4-29 Covers 2-5-29
 Pistons 8-4-29 Piston Rods 13-5-29 Connecting rods 21-5-29
 Crank shaft 23-5-29 Thrust shaft 10-5-29 Intermediate shafts 23-5-29
 Tube shaft ✓ Screw shaft 23-5-29 Propeller 24-5-29
 Stern tube 21-5-29 Engine and boiler seatings 30-5-29 Engines holding down bolts 14-6-29
 Completion of fitting sea connections 30-5-29
 Completion of pumping arrangements 14-6-29 Boilers fixed 14-6-29 Engines tried under steam 19-6-29.
 Main boiler safety valves adjusted 19-6-29. Thickness of adjusting washers 1/16", 5/16", 5/16"; 5/16", 5/16"; 5/16", 5/16".
 Crank shaft material H Steel Identification Mark 2696 wts Thrust shaft material H Steel Identification Mark 1534 wts
 Intermediate shafts, material H Steel Identification Marks 1486, 1437, 1443, 1465 wts. Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material H Steel Identification Mark 1551 & 1431 wts Steam Pipes, material S.D. Steel Test pressure 645 lbs. Date of Test 23-5-29
 Is an installation fitted for burning oil fuel ho 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 ho If so, state name of vessel ✓

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 is efficiently installed & fixed in the vessel & was tried under steam & is in good & safe working condition & eligible in my opinion to be classed & have marks. ✠ L.M.C. 7-29. Sail shaft C.L. in the Register Book. 7.29

It is submitted that this vessel is eligible for THE RECORD. — L.M.C. 7.29. C.L.F.D

Wm
26.7.29

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 ... £ 5 : 0 : 0
 Special ... £ 94 : 3 : 0
 Donkey Boiler Fee ... £ ✓ :
 Travelling Expenses (if any) £ : ✓ :

When applied for, 24 JUL 1929
 When received, 14.8.29

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

Committee's Minute TUE. 30 JUL 1929

Assigned + L.M.C. 7.29