

Rpt. 4.

No. 86043

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office AUG 1930

Date of writing Report 19 When handed in at Local Office 15th Aug 1930 Port of Newcastle-on-Tyne

No. in Survey held at Wallsend-on-Tyne Date First Survey 17 Jan Last Survey 15th Aug 1930
Reg. Book. on the New Steel S.S. "Holmside" (Number of Visits 40.)

Built at Blyth By whom built Cowpen D. & S. B Co Ltd Yard No. 248 Tons { Gross 3433
Engines made at Wallsend By whom made North Eastern M & E Co Ltd Engine No. 2756 Net 2038
Boilers made at Wallsend By whom made North Eastern M & E Co Ltd Boiler No. 2756 When built 1930
when made 1930

Registered Horse Power Owners Port belonging to

Nom. Horse Power as per Rule 298 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 Quadruple expansion Revs. per minute 65

Dia. of Cylinders 20"-28"-40"-58" Length of Stroke 42 No. of Cylinders 4 No. of Cranks 4

Crank shaft, dia. of journals as per Rule 11.49" as fitted 12.8" Crank pin dia. 12.8" Crank webs Mid. length breadth 20 3/4" Mid. length thickness 4 1/2" Thickness parallel to axis 4 1/2" Thickness around eye-hole 6 1/8"

Intermediate Shafts, diameter as per Rule 11.23" as fitted 11 3/8" Thrust shaft, diameter at collars as per Rule 11.49" as fitted 12 1/8"

Tube Shafts, diameter as per Rule 12.605" as fitted 13 1/2" Is the { tube screw } shaft fitted with a continuous liner { yes

Bronze Liners, thickness in way of bushes as per Rule .687" as fitted 3/4" Thickness between bushes as per Rule .511" as fitted 5/8" 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 ✓

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 ✓

Propeller, dia. 16'-6" Pitch 14'-0" No. of Blades 4 Material C Iron whether Moveable No Total Developed Surface 84 1/2 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 3 1/2" Stroke 1'-9" Can one be overhauled while the other is at work yes

Bilge Pumps worked from the Main Engines, No. 2 Diameter 3 1/2" Stroke 1'-9" Can one be overhauled while the other is at work yes

Feed Pumps { No. and size 2 @ 6"x6 1/2"x15", 1 @ 6"x4"x6" Pumps connected to the { No. and size 2 @ 3 1/2"x1'-9" 2 @ 8"x10"x10" How driven Steam Steam Main Engines Steam

Ballast Pumps, No. and size 2 @ 8"x10"x10" Lubricating Oil Pumps, including Spare Pump, No. and size None

Are two independent means arranged for circulating water through the Oil Cooler ✓

Bilge Pumps;—In Engine and Boiler Room 4 @ 3" Tunnel well 1 @ 2 1/2" Suctions, connected to both Main Bilge Pumps and Auxiliary

In Holds, &c. Nos 1 & 2, 2 @ 3", No 3 - 2 @ 2 1/2", No 4 2 @ 3", No 5 2 @ 3"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 8" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 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 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 other above

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 Hold suction How are they protected wood cased

What pipes pass through the deep tanks none 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 3.) Total Heating Surface of Boilers 4968 sq. ft.

Is Forced Draft fitted No No. and Description of Boilers Two single ended. Working Pressure 225 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)

Superheaters Standard approved 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, 1 set coupling bolts, 4 eng feed pump valves, 4 eng bilge pump valves, 1/2 set air feed pp valves, 1 set ballast pp valves, 12 piston bolts, 9 cyl cover studs, 1 set trans bottom ring for each piston, 1 set coach springs for S.P. piston, 1 air pp rod, 1 set valves for air pp, 3 main & 2 aux feed check valve lids. Quantity of assorted bolts nuts & iron.

The foregoing is a correct description

THE NORTH EASTERN MARINE ENGINEERING CO., LTD.

Manufacturer.



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Lloyd's Register Foundation

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Newcastle-on-Tyne

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

1930
Jan. 7. 30. Feb. 5. 19. Mar. 7. 20. 28. Apr. 9. 11. 25. May 14. 19. 26. 28. 29. 30. June 2. 4.
During progress of work in shops - -
5. 7. 12. 16. 17. 18. 20. 23. July 1. 2. 3. 4. 7. 10. 11. 12. 14. 17. 18. 21. 25. Aug. 1.
Dates of Survey while building
During erection on board vessel - -
Total No. of visits 40.
Dates of Examination of principal parts—Cylinders 4-6-30 Slides 4-6-30 Covers 4-6-30
Pistons 4-6-30 Piston Rods 14-6-30 Connecting rods 17-6-30
Crank shaft 16-6-30 Thrust shaft 5-6-30 Intermediate shafts 16-6-30
Tube shaft ✓ Screw shaft 5-6-30 Propeller 18-6-30
Stern tube 2-6-30 Engine and boiler seatings 24-6-30 Engines holding down bolts 14-4-30
Completion of fitting sea connections 11-6-30
Completion of pumping arrangements 21-4-30 Boilers fixed 14-4-30 Engines tried under steam 21-4-30
Main boiler safety valves adjusted 21-4-30 Thickness of adjusting washers P.B. 5 1/2" super 5/16. S.B. 5 1/2" super 5/32
Crank shaft material O.H. Steel Identification Mark 2456 W.B. Thrust shaft material O.H. Steel Identification Mark 3446 W.B.
Intermediate shafts, material O.H. Steel Identification Marks 3614 (4) 3684 R.W.F. + W.B. Tube shaft, material ✓ Identification Mark ✓
Screw shaft, material O.H. Steel Identification Mark 3634 R.W.F. Steam Pipes, material S.D. Steel Test pressure 64 1/2 Date of Test 14-4-30
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 No 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 has been efficiently installed & fixed in the vessel and tried under steam and is in good & safe working condition & eligible in my opinion to be classed & have records
✠ L.M.C. 8-30 Yail Shaft C. L. in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD

+ L.M.C. 8.30

C-L

W.R.
6/8/30.

The amount of Entry Fee ... £ 4 : 0 : 0
Special ... £ 69 : 14 : 0
Donkey Boiler Fee ... £ ✓
Travelling Expenses (if any) £ ✓
When applied for, - 5 AUG 1930
When received, 12/8/30

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

Committee's Minute

TUE. 12 AUG 1930

Assigned

+ L.M.C. 8.30

CERTIFICATE WRITTEN



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