

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 25 FEB 1930

Date of writing Report 14 Feb 1930 When handed in at Local Office 14 Feb 1930 Port of HULL
 No. in Survey held at Goole Date, First Survey 21 Aug 28 Last Survey 14 Feb 1930
 Reg. Book. 4-1808 on the Steam S.S. "PORTADON" Tons { Gross 671.30 Net 326.40
 Built at Goole By whom built Goole S.B. & R. Co. Ltd Yard No. 265 When built 1930
 Engines made at Southampton By whom made W. & A. Summers & Co. Ltd Engine No. 366 when made
 Boilers made at Newcastle By whom made Palmer S.B. & S. Co. Boiler No. 1050 when made
 Registered Horse Power _____ Owners Portfield Steamship Co. Ltd Port belonging to Cardiff
 Nom. Horse Power as per Rule 97 9/16 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no
 Trade for which Vessel is intended _____

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute _____
 Dia. of Cylinders 3 1/4 22.37 Length of Stroke 27 No. of Cylinders _____ No. of Cranks _____
 Crank shaft, dia. of journals _____ as per Rule _____ Crank pin dia. 6.8" Crank webs _____ Mid. length breadth _____ Thickness parallel to axis _____
 Intermediate Shafts, diameter _____ as per Rule _____ Thrust shaft, diameter at collars _____ as per Rule 7.14 Thickness around eye-hole _____
 Tube Shafts, diameter _____ as per Rule _____ Screw Shaft, diameter _____ as per Rule 8" Is the { tube } shaft fitted with a continuous liner { no }
 Bronze Liners, thickness in way of bushes _____ as per Rule .53" Thickness between bushes _____ as per Rule 3/4" 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 _____ Length of Bearing in Stern Bush next to and supporting propeller 32"
 Propeller, dia. 10'-0" Pitch 10'-3" No. of Blades 4 Material st whether Moveable no Total Developed Surface 32 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 2 3/4 Stroke 12 Can one be overhauled while the other is at work yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 3/4 Stroke 12 Can one be overhauled while the other is at work yes
 Feed Pumps { No. and size one 7 x 4 1/2 x 8" Pumps connected to the { No. and size one 6 x 4 x 6" How driven Steam }
 Ballast Pumps, No. and size one 6 x 4 x 6" 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 2 @ 2 1/2" in ER. 2 @ 2 1/2" in Stokehold.
 In Holds, &c. one, 3" 5" fore peak. one 3" 5" aft peak 2 @ 2 1/4" 5" hold.

Main Water Circulating Pump Direct Bilge Suctions, No. and size one 3 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size one 2 3/4" 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 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 Forward suction How are they protected wood casing
 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 _____ Is it fitted with a watertight door _____ worked from _____

MAIN BOILERS, &c.—(Letter for record (5)) Total Heating Surface of Boilers 1760 sq. feet
 Is Forced Draft fitted no No. and Description of Boilers one single ended Working Pressure 180 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 yes Main Boilers yes Auxiliary Boilers _____ Donkey Boilers _____
 Superheaters _____ General Pumping Arrangements yes Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:—Two bolts & nuts for top ends, bottom ends & main bearings. Set of coupling bolts & nuts. Spare valves for air, feed and bilge pumps. Spare main & donkey check valves. Spare valves for donkey pumps. Bolts & nuts of various sizes.

The foregoing is a correct description,

Manufacturer.



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002442-002448-0200

During progress of work in shops - -

Dates of Survey while building

During erection on board vessel - - -

Total No. of visits

1928. Aug 21. 24. Sept 27. 1929. May 16. 1930. Jan 14. 28. 30. 31. Feb 3. 10. 14.

197.

Dates of Examination of principal parts—Cylinders Slides Covers

Pistons Piston Rods Connecting rods

Crank shaft Thrust shaft 21. 8. 28 Intermediate shafts

Tube shaft ✓ Screw shaft 24. 8. 28 Propeller 14. 1. 30

Stern tube 21. 8. 28 Engine and boiler seatings 28. 1. 30 Engines holding down bolts 28. 1. 30

Completion of fitting sea connections 14. 1. 30.

Completion of pumping arrangements 10. 2. 30 Boilers fixed 28. 1. 30 Engines tried under steam 10. 2. 30

Main boiler safety valves adjusted 10. 2. 30. Thickness of adjusting washers 5 1/8

Crank shaft material Identification Mark Thrust shaft material Identification Mark

Intermediate shafts, material Identification Marks Tube shaft, material Identification Mark

Screw shaft, material Identification Mark Steam Pipes, material Test pressure 360 lbs. Date of Test 30. 1. 30.

Is an installation fitted for burning oil fuel ✓ 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 ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)

For particulars of this engine, please see attached report, Southampton 10659.

These engines opened up & examined. Cylinders, pistons & slides & crank shaft, & all working parts cleaned, placed in good order & refitted.

The engine now satisfactorily fitted on board, tried under working conditions & found in good order. It is eligible in my opinion to have record of + L.M.C. 2.30. C.L.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 2.30 C.L.

Date of build 1920

J. H. 26/2/30

Charges for Rules £11. 17. 0

Engine 8. 0. 0

1st Entry Fee £2 + £24. 5

The amount of Entry Fee ... £ : : When applied for, 14 Feb 1930.

Special 1/5th for Hull 4 6 : 8 : When received, 13. 3. 1930.

Donkey Boiler Fee ... £ : : 13. 3. 1930

Travelling Expenses (if any) £ 1 : 11 : 4

J. H. Shackleton

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 28 FEB. 1930.

TUE. 4 MAR 1930

TUE. 11 MAR 1930

+ L.M.C. 2.30. C.L.



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