

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office 15 September 1949 Port of Sunderland.
 No. in Survey held at Sunderland. Date, First Survey 26 January 1949 Last Survey 14 July 1949
 Reg. Book 1/2 "Poole River" (Number of Visits 6)
 Built at Sunderland. By whom built Wm. Pickersgill & Sons Ltd. Yard No. 313. Tons Gross 1366 Net 662
 Engines made at Sunderland. By whom made H.E. Marine Eng Co (1938) Ltd. Engine No. 4195. When built 8-1949.
 Boilers made at Sunderland. By whom made H.E. Marine Eng Co (1938) Ltd. Boiler No. 4195. When made 8-1949.
 Registered Horse Power Owners British Electricity Authority Port belonging to London
 Nom. Horse Power as per Rule MN. 196 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.
 Trade for which vessel is intended

ENGINES, &c.—Description of Engines Triple expansion reciprocating.
 Dia. of Cylinders 16", 25", 45" Length of Stroke 33" No. of Cylinders 3. Revs. per minute 3.
 Crank shaft, dia. of journals as per Rule 9.279" as fitted 9.500" Crank pin dia. 9.75" Mid. length breadth 16" No. of Cranks 3.
 Intermediate Shafts, diameter as per Rule as fitted Thrust shaft, diameter at collars as per Rule 9.279" as fitted 9.50"
 Tube Shafts, diameter as fitted Screw Shaft, diameter as per Rule 9.879" as fitted 10.25" Is the shaft fitted with a continuous liner Yes.
 Bronze Liners, thickness in way of bushes as per Rule .5478" as fitted .461" — .8125" Thickness between bushes as per Rule .4483" as fitted .6875" 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 at No. If so, state type.

Propeller, dia. 12'-6" Pitch 13'-2" No. of Blades 4 Material CI Length of Bearing in Stern Bush next to and supporting propeller 4'-0" whether Moveable No. Total Developed Surface 51 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 16 1/2" Can one be overhauled while the other is at work Yes.
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 16 1/2" Can one be overhauled while the other is at work Yes.

Feed Pumps No. and size 1, 7x5x12" How driven Steam Pumps connected to the Main Bilge Line No. and size 1, 10x9x24" 1, 7x5x12" How driven Steam & 2 M.E. pumps

Ballast Pumps, No. and size 1, 10x9x24" Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler.
 Bilge Pumps:—In Engine and Boiler Room Eng room well 1 @ 2 1/2" Blr room 2 @ 2 1/2"
 In Pump Room. In Holds, &c. No 1 hold - 2 @ 2 1/2" No 2 hold - 2 @ 2 1/2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 6" Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges, No. and size 1 @ 4"

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes.
 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.
 Are all Sea Connections fitted direct on the skin of the ship dired & on boxes. 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.
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel.
 What Pipes pass through the bunkers.
 What pipes pass through the deep tanks.

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times.
 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.
 Is the Shaft Tunnel watertight none. Is it fitted with a watertight door. worked from.

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 2950 sq. ft.
 Which Boilers are fitted with Forced Draft Main.
 No. and Description of Boilers 2. Single ended multitubular Which Boilers are fitted with Superheaters none.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes. Working Pressure 220 lb/sq. in.
 IS A DONKEY BOILER FITTED? No. If so, is a report now forwarded?

Can the donkey boiler be used for other than domestic purposes.
 PLANS. Are approved plans forwarded herewith for Shafting 13-2-48 Main Boilers 6-8-47 Auxiliary Boilers Donkey Boilers.
 (If not state date of approval)

Superheaters General Pumping Arrangements 30.7.48 Oil fuel Burning Piping Arrangements
 SPARE GEAR.

Has the spare gear required by the Rules been supplied.
 State the principal additional spare gear supplied.

1949 Jan 26 Feb 4.18 Mar 1.2.4.9.15.18.24.29 Apr 5.6.12(2).12(2).27.29 May 10.11.13.18.23.25.27 Jun 1.2.3.6.9.10.11.13.
 14.15.21.23.24.27.28.30 Jul 1.5(2).6(2).7(2).11.15.18.19.20.21 Aug 2.9.11.12.17

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits 61

Dates of Examination of principal parts—Cylinders HP 3-6-49 MP 3-6-49 LP 3-6-49 Slides 3-6-49 Covers 3-6-49

Pistons 8-6-49 Piston Rods 8-6-49 Connecting rods 8-6-49

Crank shaft 27-5-49 Thrust shaft 10-6-49 Intermediate shafts ✓

Tube shaft ✓ Screw shaft 14-6-49 Propeller 14-6-49

Stern tube 10-6-49 Engine and boiler seatings 11-7-49 Engines holding down bolts 11-7-49

Completion of fitting sea connections 24-6-49

Completion of pumping arrangements 17-8-49 Boilers fixed 11-7-49 Engines tried under steam

Main boiler safety valves adjusted 17-8-49 Thickness of adjusting washers PART P. 12" S. 30" STRAB P. 3" S. 30"

Crank shaft material Steel Identification Mark LLOYDS, T.G. 4195, 27-5-49 Thrust shaft material Steel Identification Mark LLOYDS, J.L. 2028, 10-6-49

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

Screw shaft, material Steel Identification Mark LLOYDS, T.G. 2056, T.G. 14-6-49 Steam Pipes, material S.D. Steel Test pressure 660 lb. Date of Test 15th 18th 21st 1949

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 the use of oil as fuel been complied with ✓

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo ✓ If so, have the requirements of the Rules been complied with ✓

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with ✓

Is this machinery duplicate of a previous case Yes. If so, state name of vessel "Poole Harbour".

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

The machinery of this vessel has been constructed under Special Survey in accordance with the approved plans, Secretary's letter and the requirements of the Rules.

The workmanship and materials are good, and the machinery has been efficiently fitted on board the vessel and tried under working conditions, found to be satisfactory, and is eligible in my opinion for the Record of * L.M.C. 8-49, T.S. (C.L.), 2 SB, 220 lb. F.D.

The amount of Entry Fee ... £ : : When applied for,
 Special ... £ 48 : 8 : SEP - 3 1949
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 19

Date

FRI, 7 OCT 1949

(The Committee's Minute)

+LMC 8.49

FD. C.L. 2 SB 220 lb.

Signature
 Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register Foundation