

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

3 AUG 1920

Date of writing Report July 30th 1920 When handed in at Local Office July 30th 1920 Port of Bristol
 No. in Survey held at Bristol Date, First Survey Dec 29th 1915 Last Survey July 25 1920
 Reg. Book. 4768 on the S/S. MORVAH (Number of Visits 23)
 Built at Bristol By whom built John Hull & Sons Ltd. Yard No. 158 Tons 231
 Engines made at Brinscombe By whom made Abraham Mitchell Engine No. 1440 when made 1920
 Boilers made at Stockton By whom made Piley Bros Ltd. Boiler No. 5646 when made 1926
 Registered Horse Power _____ Owners Belmont & Wallis Port belonging to Bristol
 Nom. Horse Power as per Rule 3944 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Vertical triple expansion
 Dia. of Cylinders 9 1/2 x 15 1/2 x 26 Length of Stroke 18 Revs. per minute 140 No. of Cylinders 3 No. of Cranks 3
 Dia. of Crank shaft journals as per rule 4.8 Dia. of Crank pin 5 1/2 Crank webs Mid. length breadth Thickness parallel to axis shrunk
 Diameter of Thrust shaft under collars as per rule 4.8 Diameter of Tunnel shaft as per rule Diameter of Screw shaft as per rule 5.79 Is the Screw shaft shrunk
 Is the after end of the liner made watertight in the propeller boss No
 Is the after end of the liner made watertight in the propeller boss No
 Is the space between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes
 Is an approved appliance fitted at the after end of the shaft to permit it being efficiently lubricated No
 Length of Stern Bush 2-1 Diameter of Propeller 6-9 1/2
 Pitch of Propeller 8-10 No. of Blades 4 State whether Moveable No Total Surface _____ square feet.
 No. of Feed Pumps fitted to the Main Engines one Diameter of ditto 2 Stroke 9 Can one be overhauled while the other is at work Yes
 No. of Bilge Pumps fitted to the Main Engines one Diameter of ditto 2 Stroke 9 Can one be overhauled while the other is at work Yes
 Total number and size of power driven Feed and Bilge Auxiliary Pumps one 6x4x6 duplex
 No. and size of Pumps connected to the Main Bilge Line as above
 No. and size of Ballast Pumps _____ No. and size of Lubricating Oil Pumps, including Spare Pump _____
 Are two independent means arranged for circulating water through the Oil Cooler Yes No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 2-2 1/2 and in Hold, &c. 2-2 1/2

No. and size of Main Water Circulating Pump Bilge Suctions one 2 1/2 No. and size of Donkey Pump Direct Suctions 1-3
 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 connections with the sea direct on the skin of the ship Yes Are they 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 Discharge Pipes above or below the deep water line Both
 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 are carried through the bunkers None How are they protected _____
 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 Screw Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 865 sq ft
 Forced Draft fitted No No. and Description of Boilers 1 S.E. Muntz & Co. Ltd. SB 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 _____
 General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:—
Two sets of top & bottom end bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of feed & bilge pump valves, various tools & nuts.

The foregoing is a correct description

Manufacturer.



© 2020 Lloyd's Register Foundation

(See Bristol Report No. 10526)

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

1925 Dec 29, 30, 31, 1926 Jan 11, Apr 13, 14, 19, 20, 23, 24, 26, 30, May 4, 7, 10, 17, 28, June 1, 3, 4, 22, July 8, 26.

Dates of Examination of principal parts - Cylinders 11.1.26. Slides 11.1.26
 Covers 11.1.26. Pistons 11.1.26. Rods 11.1.26
 Connecting rods 11.1.26. Crank shaft 11.1.26. Thrust shaft -
 Tunnel shafts - Screw shaft 23.4.26. Propeller 23.4.26.
 Stern tube 23.4.26. Engine and boiler seatings 23.4.26. Engines holding down bolts 26.4.26.
 Completion of pumping arrangements 26.7.26. Boilers fixed 26.4.26. Engines tried under steam 4.6.26.
 Completion of fitting sea connections 24.4.26. Stern tube 24.4.26. Screw shaft and propeller 24.4.26.
 Main boiler safety valves adjusted 28.5.26. Thickness of adjusting washers $\frac{9}{32}$ $\frac{5}{16}$
 Material of Crank shaft Steel Identification Mark on Do. 4805 J.R.W.
 Material of Thrust shaft Scrap Iron Identification Mark on Do. 7417 N.J.J. 3.3.26.
 Material of Tunnel shafts - Identification Marks on Do. -
 Material of Screw shafts Steel Identification Marks on Do. 912. K.E.M.
 Material of Steam Pipes Solid drawn pipe Test pressure 360 lbs. Date of Test 15.5.26.
 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 If so, state name of vessel Eng 1437-P-9.

General Remarks (State quality of workmanship, opinions as to class, &c. These engines have been constructed under special survey in 1920 (see Report N/10526 attached) they were afterwards sold by auction have been lying in Messrs Chas. Hull & Son's yard Bristol. They have now been dismantled, examined, reassembled & secured on board this vessel together with the boiler (Machinery Report attached) tried under full working conditions found satisfactory, & are now in my opinion eligible for service of L.M.C. 7.26.

It is submitted that this vessel is eligible for L.M.C. 7.26.
 Date of construction 1926. J.W.
 J.W.
 11/8/26.

The amount of Entry Fee ... £ 2 : 0 : 0 When applied for,
 Special ... £ 6 : 0 : 0 19
 Donkey Boiler Fee ... £ : : : When received,
 Travelling Expenses (if any) £ : : : 19.10.26

Committee's Minute FRI. 13 AUG 1926
 Assigned + L.M.C. 7.26

John W. Curry
 Engineer Surveyor to Lloyd's Register of Shipping.



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