

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 & Son 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 *Osborn & Wallis* Port belonging to *Bristol*
 Nom. Horse Power as per Rule *32 44* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *No*

GINES, &c.—Description of Engines *Triple expansion*
 No. of Cylinders *3* Length of Stroke *18* Revs. per minute *140* No. of Cranks *3*
 Dia. of Crank shaft journals *as per rule 4.8* Dia. of Crank pin *5.4* Crank webs *Mid. length breadth* Thickness parallel to axis *shrunk*
 Thickness around eye-hole _____
 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 5.29* Is the Screw shaft
 as fitted *5.4* as fitted _____ as fitted *6.5*
 Is the after end of the liner made watertight in the propeller boss *No*
 If the liner does not fit tightly at the part _____
 Is an approved appliance fitted at the after end of the shaft to permit
 of two liners are fitted, is the shaft lapped or protected between the liners _____
 Is 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 _____
 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 _____
 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 _____ 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 _____
 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*
 That 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. Horizontal SB* Working Pressure *180 lb*
 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 _____
 (If not state date of approval) _____
 General Pumping Arrangements *Yes* Oil fuel Burning Piping Arrangements _____

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

The foregoing is a correct description

Manufacturer.



© 2020

Lloyd's Register
Foundation

(See Bristol Report No. 10526)

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

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 23.4.26. 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 9 3/32 5 1/4
Material of Crank shaft Scrap Iron Identification Mark on Do. 4805 J.R.W.
Material of Thrust shaft Identification Mark on Do. 7417 N.J.D. 3.3.26.
Material of Tunnel shafts Identification Marks on Do.
Material of Screw shafts Identification Marks on Do. 912 K.E.M.
Material of Steam Pipes Solid drawn copper 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 Lugs 1437-8-9.

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 laying in Messrs Chas. H. & Son's yard Bristol. They have now been dismantled, examined, reassembled, fitted & run on board this vessel together with the boiler (Maddox's Report attached) this machine gives working conditions of a satisfactory nature and in my opinion eligible for service of L.M.C. 7.26.

Date of construction 1926.

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

+ R.M.C. 7.26

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



© 2020

Lloyd's Register
Foundation