

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 1st SEPT. 1943. When handed in at Local Office 18th SEPT. 1943. Port of Greenock
 No. in Survey held at Greenock. Date, First Survey 18th AUGUST 1942. Last Survey 17th SEPTEMBER 1943.
 Reg. Book (Number of Visits.)
 on the "MAHADEVI"
 Built at Port Glasgow By whom built Lithgows Ltd. Yard No. 984 Tons { Gross 5459.42
 Engines made at Greenock By whom made Rankin & Blackmore Ltd. Engine No. 491 When built 1943
 Boilers made at Greenock By whom made Rankin & Blackmore Ltd. Boiler No. 491 When made 1943
 Registered Horse Power 517 Owners Indic Steam Navigation Co. Ltd. Port belonging to London
 Nom. Horse Power as per Rule 517 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which vessel is intended Foreign

ENGINES, &c.—Description of Engines.

Triple Expansion Revs. per minute 72
 Dia. of Cylinders 24.2" 41" 70" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 14.2" Crank pin dia. 14.2" Mid. length breadth — Thickness parallel to axis 9"
as fitted 14.2" Crank webs — shrunk Thickness around eye-hole 6.4"
as per Rule 13.53" Mid. length thickness — as per Rule 14.2"
 Intermediate Shafts, diameter as fitted 13.2" Thrust shaft, diameter at collars as fitted 14.2"
 Tube Shafts, diameter as per Rule — Screw Shaft, diameter as per Rule 14.99" Is the tube shaft fitted with a continuous liner Yes
as fitted — as fitted 15.2" screw
 Bronze Liners, thickness in way of bushes as per Rule .751" Thickness between bushes as per Rule .565" Is the after end of the liner made watertight in the
as fitted .751" as fitted 3/4" 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 — Length of Bearing in Stern Bush next to and supporting propeller 62"
 Propeller, dia. 17.6" Pitch 17.5" Max No. of Blades 4 Material C.I. whether Moveable Yes Total Developed Surface 102 sq. feet
 Feed Pumps worked from the Main Engines, No. — Diameter — Stroke — Can one be overhauled while the other is at work —
 Bilge Pumps worked from the Main Engines, No. 1-9.5" x 7.2" Diameter 4.2" Stroke 24" Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size 10.5" x 8" x 22" (TWIN) 1-12" x 9" x 24" Pumps connected to the { No. and size 1-12.2" x 4" x 24" 1-8" x 9" x 18"
 Pumps { How driven STEAM Main Bilge Line { How driven STEAM
 Ballast Pumps, No. and size ONE 12.2" x 14" x 24" 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 3-3"
 In Pump Room Offordam 1@2" Nº4-2@3" Nº5-2@3" TUNNEL WELL 1@2.2" Nº3-2@2.2"
 Main Water Circulating Pump Direct Bilge Suctions, No. and size 1@9" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size 1@5" 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 OR ON RESERVOIR 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 FORº BILGE SUCTIONS How are they protected WOOD CASINGS
 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 YES Is it fitted with a watertight door Access by Pump Room Upper Deck
 worked from —

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 7266.

Which Boilers are fitted with Forced Draft 3 Main Which Boilers are fitted with Superheaters —
 No. and Description of Boilers 3-SE Multitubular Working Pressure 230 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? —
 Can the donkey boiler be used for domestic purposes only —

PLANS. Are approved plans forwarded herewith for Shafting — Main Boilers — Auxiliary Boilers — Donkey Boilers —
 (If not state date of approval)

Superheaters — General Pumping Arrangements — Oil fuel Burning Piping Arrangements —

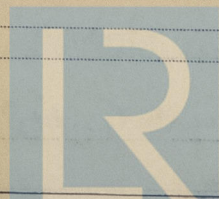
SPARE GEAR.

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

The foregoing is a correct description.
 Rankin & Blackmore Ltd.,

H. Smith Managing Director.

Manufacturer.



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004308-004315-0105

J.H.

Dates of Survey while building
During progress of work in shops - - (1942) AUG. 18. SEPT. 4. 23. 28. OCT. 2. 5. 9. 13. 20. NOV. 3. 10. 13. 25. DEC. 2. 4. 10. 14. 24. 28. 30.
(1943) JAN. 5. 12. 13. 18. 22. 28. 29. FEB. 1. 10. 15. 18. 23. 25. MAR. 1. 15. 22. 30. APRIL 2. 6. 4. 16. 23. MAY 10. 21. 31.
During erection on board vessel - - - JUNE 9. 11. 14. 17. 21. 25. 29. 30. JULY 15. 16. 20. 24. 28. 30. AUG. 6. 9. 13. 18. 24. SEPT. 9. 12. 15. 17.
Total No. of visits 68.

Dates of Examination of principal parts—Cylinders 24/1/43 Slides 18/2/43 Covers 25/2/43
Pistons 18/2/43 Piston Rods 23/2/43 Connecting rods 23/2/43
Crank shaft 30/12/42 Thrust shaft 29/6/43 Intermediate shafts 25/6/43
Tube shaft 11/6/43 Propeller 11/6/43
Stern tube 21/6/43 Engine and boiler seatings 17/6/43 Engines holding down bolts 9/8/43
Completion of fitting sea connections 17/6/43
Completion of pumping arrangements 13/8/43 Boilers fixed 30/7/43 Engines tried under steam 3/8/43
Main boiler safety valves adjusted 13/8/43 Thickness of adjusting washers PORT. S 3/8" CENTRE S 23/64" STAR S 25/64"
Crank shaft material Steel Identification Mark MC. 30/12/42 Thrust shaft material Steel Identification Mark MC. 29/6/43
Intermediate shafts, material Steel Identification Marks MC. 25/6/43 Tube shaft, material Identification Mark
Screw shaft, material Steel Identification Mark MC. 11/6/43 Steam Pipes, material B. Steel Test pressure 660/lb/sq. in. Date of Test 9/8/43
Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150° F. No
Have the requirements of the Rules for the use of oil as fuel been complied with No
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No If so, have the requirements of the Rules been complied with No
If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with No
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. Here engines and boilers have been built under Special Survey in accordance with the rules and the approved plans, securely fitted in the vessel and tried under steam satisfactorily. The materials and workmanship are good. The machinery is eligible, in my opinion, to have the record of + LMC. 9.43 and the notation S. C. and 3 Single boilers. F.D.

Certificate to be sent to

The amount of Entry Fee ... £ 6 : 0 : When applied for,
Special ... £ 100 : 17 : 31st Aug. 1943.
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 19.

Committee's Minute 21 SEP 1943

Assigned 1- LMC 9.43 F.D.

M. Caldwell
Engineer Surveyor to Lloyd's Register of Shipping.



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