

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 30th JUNE 1944. When handed in at Local Office 30th JUNE 1944. Port of GREENOCK
No. in Survey held at GREENOCK Date, First Survey 15th JULY 1943 Last Survey 30th JUNE 1944
Reg. Book (Number of Visits 55)
on the "EMPIRE TALISMAN"
Built at Port Glasgow By whom built Messrs Lithgow & Co. Ltd. Yard No. 997. When built 1944
Engines made at Glasgow By whom made Harland & Wolff. Engine No. A/77 MSM. When made 1944
Boilers made at Glasgow By whom made Fairfield S.B. & E. Co. Ltd. Boiler No. A/71. When made 1944
Registered Horse Power Owners Ministry of War Transport. Port belonging to Greenock
Nom. Horse Power as per Rule 560 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes
Trade for which vessel is intended Foreign

ENGINES, &c.—Description of Engines

Dia. of Cylinders Length of Stroke No. of Cylinders No. of Cranks Revs. per minute
Crank shaft, dia. of journals as per Rule 13.3" as fitted 13.3" Mid. length breadth Thickness parallel to axis
Intermediate Shafts, diameter as per Rule 13.3" as fitted 13.3" Mid. length thickness Thickness around eye-hole
Tube Shafts, diameter as per Rule 14.85" as fitted 14.85" Is the shaft fitted with a continuous liner Yes
Screw Shaft, diameter as per Rule 15.4" as fitted 15.4" Is the after end of the liner made watertight in the propeller boss Yes
Bronze Liners, thickness in way of bushes as per Rule 7.54" as fitted 7.54" Thickness between bushes as per Rule 5.8" as fitted 5.8"
Propeller, dia. 18.3" Pitch 16.6" Max. No. of Blades 4 Material C.I. whether Moveable No. Total Developed Surface 110 sq. feet
Feed Pumps worked from the Main Engines, No. Diameter 4" Stroke 27" Can one be overhauled while the other is at work Yes
Bilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 27" Can one be overhauled while the other is at work Yes
Feed Pumps No. and size Pair 10.5" x 22" 1 @ 9.5" x 21" Pumps connected to the Main Bilge Line No. and size 1 @ 9.5" x 21" 1 @ 9.5" x 21"
How driven Steam How driven Steam
Ballast Pumps, No. and size 1 @ 9" x 12" x 12" 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 In Holds, &c. 1 @ 9" 1 @ 9" 1 @ 9" Tunnel Well 1 @ 2.5"
Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 5" 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 (Mammoth in Reinforcement) 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 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 pass through the bunkers Ind. Weld Suctions How are they protected Weld Cappings
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 trunk from upper deck

MAIN BOILERS, &c.—(Letter for record S)

Which Boilers are fitted with Forced Draft all Total Heating Surface of Boilers 8368 sq. ft.
No. and Description of Boilers 2 Main & one Auxiliary Multitubular Which Boilers are fitted with Superheaters Both main.
Working Pressure 220 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 26.4.41 Main Boilers 16.2.43 Auxiliary Boilers 17/2/43 Donkey Boilers
(If not state date of approval) 26.4.41 16.2.43
Superheaters Mauchester Engineers General Pumping Arrangements 21.9.43 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.

Managing Director.

Manufacturer.



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Dates of Survey while building
During progress of work in shops - - (1943) JULY 15-30. AUG 5-21. SEPT 21. OCT 6-18-21. DEC 1-8-17-23-28. (1944) JAN 5-12-17-19-22. FEB 4-14-21. MAR 10-21-27-29. APRIL 4-7-10-14-19-21-24-28. MAY 2-3-5-9-10-15-16-22-30. JUNE 2-12-13. 15-16-19-20-22-23-24-28-29-30.
During erection on board vessel - - -
Total No. of visits 55.

Dates of Examination of principal parts—Cylinders _____ Slides _____ Covers _____
Pistons _____ Piston Rods _____ Connecting rods _____
Crank shaft _____ Thrust shaft 10-4-44 Intermediate shafts 19-4-44
Tube shaft _____ Screw shaft 7-4-44 Propeller 7-4-44
Stern tube 19-4-44 Engine and boiler seatings 2-5-44 Engines holding down bolts 12-6-44
Completion of fitting sea connections 7-4-44
Completion of pumping arrangements 16-6-44 Boilers fixed 2-6-44 Engines tried under steam 16-6-44
Main boiler safety valves adjusted 16-6-44 Thickness of adjusting washers Port $\frac{1}{16}$ S. Supply $\frac{1}{16}$ C $\frac{1}{16}$ S. Store $\frac{1}{16}$ S. Supply $\frac{1}{16}$
Crank shaft material _____ Identification Mark No 12519 Thrust shaft material STEEL Identification Mark MC 104-44
Intermediate shafts, material Steel Identification Marks 19-4-44 Tube shaft, material _____ Identification Mark _____
Screw shaft, material Steel Identification Mark 12519 Steam Pipes, material STEEL Test pressure 660/lbs Date of Test June 1944
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 NO. 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 _____ If so, state name of vessel _____

General Remarks (State quality of workmanship, opinions as to class, &c. These engines and boilers, as per Glasgow Reports No 66413 and 66375, have been built under Special Survey and have been satisfactorily installed in the Vessel, tried under steam alongside and as shot sea trial with satisfactory results. The materials and workmanship are good. The Ministry of War Transport Specification has been supervised. They are eligible, in my opinion, to be classed in the Register Book with the Notation +LMC 6-44. CL. and 2 main & 1 auxy. boiler. F.D. Superheated. Main boilers.

These engines had been lying in store for some time before fitting on board, and have now been opened up, examined and closed up. It was found necessary to return the crankshaft to Messrs Harland & Wolff where the journals were skinned up and the shaft rebedded.

Special fee + 25% = £ 7-128-15-0
Charged by Glasgow = £ 7-90-9-0
The amount of Entry Fee ... £ :
Remunerator Special ... £ :
Donkey Boiler Fee ... £ 38 : 6 :
Travelling Expenses (if any) £ :
When applied for, 27th JUNE 1944
When received, 29th JUNE 1944

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

Committee's Minute GLASGOW 11 JUL 1944
Assigned -1- Lmc 6.44 JD