

Rpt. 4.

No. 22940.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office. 21 MAR 1945

Date of writing Report 14th MARCH 1945. When handed in at Local Office 15th MARCH 1945. Port of GREENOCK

No. in Survey held at GREENOCK Date, First Survey 31st OCTOBER 1944 Last Survey 8th MARCH 1945
 Reg. Book (Number of Visits 32)

on the *Engine Scotland*

Built at *Glasgow* By whom built *As J. Inglis Ltd* Yard No. *1288 P* Tons { Gross 813
 Net 334

Engines made at *GREENOCK* By whom made *RANKIN & BLACKMORE LTD* Engine No. *50.90* When built *1945*

Boilers made at *Glasgow* By whom made *S. Rowan & Co* Boiler No. *B486* When made *1944*

Registered Horse Power Owners *Ministry of War Transport* Port belonging to

Nom. Horse Power as per Rule 125 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Trade for which vessel is intended *Not checked*

345
45

Engines, &c.—Description of Engines *Inverted Triple Expansion* Revs. per minute

Dia. of Cylinders *15" 25 1/2" 41"* Length of Stroke *30"* No. of Cylinders *3* No. of Cranks *3*

Crank shaft, dia. of journals as per Rule Crank pin dia. *8 3/8"* Crank webs Mid. length breadth Thickness parallel to axis *5 1/2"*
 as fitted *8 3/8"* Mid. length thickness shrunk Thickness around eye-hole *3 1/16"*

Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as fitted

Tube Shafts, diameter as per Rule Screw Shaft, diameter as fitted Is the { tube } shaft fitted with a continuous liner { screw }

Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as fitted Is the after end of the liner made watertight in the propeller boss

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 If so, state type Length of Bearing in Stern Bush next to and supporting propeller

Propeller, dia. Pitch No. of Blades Material whether Moveable Total Developed Surface 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. *2* Diameter *4"* Stroke *16 1/2"* Can one be overhauled while the other is at work *Yes*

Feed Pumps { No. and size Pumps connected to the Main Bilge Line { No. and size How driven

Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected both to Main Bilge Pumps and Auxiliary

Bilge Pumps:—In Engine and Boiler Room In Holds, &c.

45

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

No. and size 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 Are they fitted with Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate

What Pipes pass through the bunkers How are they protected

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

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 Is it fitted with a watertight door worked from

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

Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters

No. and Description of Boilers Working Pressure *190 lb ?*

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED?

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 (If not state date of approval)

Main Boilers

Auxiliary Boilers

Donkey Boilers

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

Supplied by *Aitchison & Blair Ltd.*

The foregoing is a correct description.

Messrs. Rankin & Blackmore Ltd.

Manufacturer.

Managing Director.



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00416-00424-0219

Certificate to be sent to

The amount of Entry Fee ... £ 3 : 0 : When applied for,

Special 2 (including 25% Specification) 15 : 12 : 16th MAR 1945.

Donkey Boiler Fee ... £ : : When received,

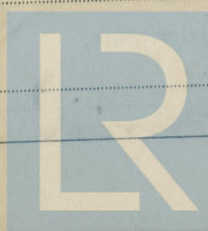
Travelling Expenses (if any) £ : : 19

Date GLASGOW

20 MAR 1945
24 APR 1945Committee's Minute
Expressed for
Completion

M. Caldwell

Engineer Surveyor to Lloyd's Register of Shipping.



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