

Rpt. 4.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Sld. No. 32094
Tmc No. 94675

Date of writing Report 10 When handed in at Local Office 6 FEB 1937 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Wallend Date, First Survey 2 Feb 1937 Last Survey Sld 19.5.37

Reg. Book. 8/s' Loch Lee (Number of Visits 1)

Built at Swanland By whom built Joseph L. Thompson Ltd Yard No. 578 Tons { Gross 5252 Net 2978

Engines made at do By whom made North Eastern Marine Eng Engine No. 2869 When built 1937

Boilers made at do By whom made do Boiler No. do When made 1937

Registered Horse Power do Owners Maday + McIntyre Ltd Port belonging to Glasgow

Nom. Horse Power as per Rule do Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which Vessel is intended 23.38.65

ENGINES, &c. — Description of Engines Triple Expansion Revs. per minute 3

Dia. of Cylinders 28" x 65" x 38" Length of Stroke 45" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule Crank pin dia. 13 1/2" Crank webs Mid. length breadth 25 3/8" Thickness parallel to axis 8 3/8"

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

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

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

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 Yes

If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft Yes

Propeller, dia. do Pitch do No. of Blades do Material do whether Moveable do Total Developed Surface do sq. feet

Feed Pumps worked from the Main Engines, No. do Diameter do Stroke do Can one be overhauled while the other is at work Yes

Bilge Pumps worked from the Main Engines, No. do Diameter do Stroke do Can one be overhauled while the other is at work Yes

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

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

Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps; — In Engine and Boiler Room Yes

In Pump Room Yes In Holds, &c. Yes

Main Water Circulating Pump Direct Bilge Suctions, No. and size do **Independent Power Pump Direct Suctions to the Engine Room Bilges,** do

No. and size do 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 Are they fitted with Valves or Cocks Yes

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 Yes

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 do How are they protected do

What pipes pass through the deep tanks do Have they been tested as per Rule Yes

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 Yes worked from do

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

Is Forced Draft fitted Yes No. and Description of Boilers do Working Pressure do

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? Yes

Is the donkey boiler intended to be used for domestic purposes only Yes

PLANS. Are approved plans forwarded herewith for Shafting Yes Main Boilers do Auxiliary Boilers do Donkey Boilers do

(If not state date of approval)

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

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied do

The foregoing is a correct description,

Manufacturer.

1937
Feb 2.3.4.5

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 *M.P. 2-2-37* Slides _____ Covers _____

Pistons *M.P. 2-2-37* Piston Rods _____ Connecting rods _____

Crank shaft *HP & LP 4-2-37* Thrust shaft _____ Intermediate shafts _____

Tube shaft _____ Screw shaft _____ Propeller _____

Stern tube _____ Engine and boiler seatings _____ Engines holding down bolts _____

Completion of fitting sea connections _____

Completion of pumping arrangements _____ Boilers fixed _____ Engines tried under steam _____

Main boiler safety valves adjusted _____ Thickness of adjusting washers _____

Crank shaft material *HP & LP Steel* Identification Mark *4-2-37 J.E.S.* Thrust shaft material _____ Identification Mark _____

Intermediate shafts, material _____ Identification Marks _____ Tube shaft, material _____ Identification Mark _____

Screw shaft, material _____ Identification Mark _____ Steam Pipes, material _____ Test pressure _____ Date of Test _____

Is an installation fitted for burning oil fuel _____ 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 _____ 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.)

The HP-LP crank shaft, port bedplate, M.P. cylinder and piston have been made at the wallSEND works, and have been dispatched to the Engine Builders Sunderland works for assembling with the remaining parts of these engines. The materials and workmanship are sound and good. The M.P. cylinder was tested to 75 lbs water pressure and found satisfactory.

Certificate to be sent to _____

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

Special ... £ : : 19 _____

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

Travelling Expenses (if any) £ : : 19 _____

Committee's Minute *FRI 4 JUN 1937*

Assigned *See Sld J.E. 32094*

J. S. Sells
Engineer Surveyor to Lloyd's Register of Shipping.

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Foundation