

Rpt. 4.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office 7/4/37 Port of NEWCASTLE-ON-TYNE
No. in Survey held at Reg. Book. Wallsend Date, First Survey 19 Feb Last Survey 5 April 1937
on the S.S. Loch Lomond (Number of Visits 13)
Built at Glasgow By whom built J. L. Thompson & Sons, Ltd. Yard No. 580 Tons { Gross 5249
Engines made at By whom made North Eastern Marine Eng Co Engine No. 2875 When built 1937
Boilers made at By whom made do Boiler No. When made 1937
Registered Horse Power Owners MacLachlan & McIntyre, Ltd Port belonging to Glasgow
Nom. Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Triple Expansion
Dia. of Cylinders 23" x 38" x 65" Length of Stroke 45" No. of Cylinders 3 Revs. per minute
Crank shaft, dia. of journals as per Rule as fitted 13 1/2" Crank pin dia. 13 1/2" Crank webs Mid. length breadth 23 3/8" Mid. length thickness 8 3/8" No. of Cranks 3 Thickness parallel to axis 8 3/8" Thickness around eye-hole 7 1/4"
Intermediate Shafts, diameter as per Rule as fitted Thrust shaft, diameter at collars as per Rule as fitted
Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule as fitted Is the { tube } shaft fitted with a continuous liner { screw }
Bronze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per Rule 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 shaft
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. Diameter Stroke Can one be overhauled while the other is at work
Feed Pumps { No. and size How driven 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 to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room In Pump Room In Holds, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine 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
Is Forced Draft fitted No. and Description of Boilers Working Pressure
IS A REPORT ON MAIN BOILERS NOW FORWARDED?
IS A DONKEY BOILER FITTED? If so, is a report now forwarded?
Is the donkey boiler intended to 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
State the principal additional spare gear supplied

The foregoing is a correct description,

Manufacturer.



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1937
Feb. 19. 7. 11. 12. 17. 18. 21. 24. Apr. 1. 2. 5.
During progress of work in shops - -
Dates of Survey while building
During erection on board vessel - - -
Total No. of visits 13.

Dates of Examination of principal parts—Cylinders MP 7-4-37 Slides Covers MP 7-4-37
Pistons MP 7-4-37 Piston Rods Connecting rods
Crank shaft H.P. & L.P. 5-4-37 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 Steel Identification Mark LLOYDS 6772 HAI. 2575 JES. 5-4-37 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 H.P. & L.P. crank shaft, part bedplate, M.P. cylinder, piston and cover have been made at the Wallend 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.

The amount of Entry Fee	...	£	:	:	When applied for,
Special	...	£	:	:	19
Donkey Boiler Fee	...	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	:	19

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

Committee's Minute TUE 18 JUL 1937

Assigned See Sea 32132