

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 15 JUN 1934

Date of writing Report 19 When handed in at Local Office 14 JUN 1934 Port of Newcastle on Tyne
 No. in Survey held at Newcastle-on-Tyne Date, First Survey 8 May Last Survey 17 May 1934
 Reg. Book. on the S.T. Se "LONDON TRADER" (Number of Visits 4)
 Built at Hebburn-on-Tyne By whom built R.W. Hawthorn, Leslie & Co. Ltd. Yard No. 594 Tons {Gross Net} When built 1934
 Engines made at Sunderland By whom made The North Eastern Mar. Eng. Co. Ltd. Engine No. When made 1934
 Boilers made at Sunderland By whom made The North Eastern Mar. Eng. Co. Ltd. Boiler No. When made 1934
 Registered Horse Power Owners Free Trade Wharf Co. Ltd. Port belonging to London
 Nom. Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted yes.
 Trade for which Vessel is intended Coasting.

ENGINES, &c.—Description of Engines *Fitting of sea connections, stern tube, prop. shaft & Propeller.*
 Dia. of Cylinders Length of Stroke No. of Cylinders No. of Cranks
 Crank shaft, dia. of journals as per Rule as fitted Crank pin dia. Crank webs Mid. length breadth. Mid. length thickness. Thickness parallel to axis shrunk Thickness around eye-hole
 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 screw} shaft fitted with a continuous liner?
 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 Movable 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 tween deck 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
 That Pipes pass through the bunkers How are they protected
 That 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 Working Pressure
 Forced Draft fitted No. and Description of Boilers
 IS A REPORT ON MAIN BOILERS NOW FORWARDED?
 IS A DONKEY BOILER FITTED? If so, is a report now forwarded?
 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.

As the spare gear required by the Rules been supplied
 What the principal additional spare gear supplied

The foregoing is a correct description,

Manufacturer.



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During progress of work in shops - -
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits

LONDON TRADER

Dates of Examination of principal parts—Cylinders Slides Covers
 Pistons Piston Rods Connecting rods
 Crank shaft Thrust shaft Intermediate shafts
 Tube shaft Screw shaft Propeller
 Stern tube Engine and boiler seatings Engines holding down bolts
 Completion of fitting sea connections 14.5.34
 Completion of pumping arrangements Boilers fixed Engines tried under steam
 Main boiler safety valves adjusted Thickness of adjusting washers
 Crank shaft material Identification Mark 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 sea connections, stern tube, screw shaft and propeller have been satisfactory fitted.
 The vessel is proceeding to Sunderland where the machinery is to be installed by Messrs North Eastern Marine Eng. Co. Ltd., and the Sunderland Surveyors have been advised.

Certificate to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute.

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

H. B. Forster
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute **FRI. 15 JUN 1934**

TUE. 26 JUN 1934

Assigned *See F. v. Rep.*



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