

Rpt. 4.

Mdb. Rpt. No. 19490.

No. 191804

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 2 Feb 1951 When handed in at Local Office 8 Feb 1951 Port of LONDON
 No. in Survey held at PETERBOROUGH Date, First Survey 8 Dec 1950 Last Survey 26 January 1951
 Reg. Book (Number of Visits Four)
 on the
 Built at Maddeston By whom built Smiths Dock Co. Yard No. E1212 Tons { Gross
 Engines made at PETERBOROUGH By whom made PETER BROTHERHOOD Engine No. 11300E When built
 Boilers made at ... By whom made ... Boiler No. ... When made 1/51
 Registered Horse Power 50 KW EACH Owners ... Port belonging to ...
 Nom. Horse Power as per Rule 3.5 Is Refrigerating Machinery fitted for cargo purposes ... Is Electric Light fitted ...
 Trade for which vessel is intended ...

ENGINES, &c.—Description of Engines VERTICAL COMPOUND 2 3/4 + 12 Revs. per minute 500
 Dia. of Cylinders 7 3/4" HP - 12" LP Length of Stroke 6" No. of Cylinders 2 No. of Cranks 2
 Crank shaft, dia. of journals as per Rule Crank pin dia. 3 1/2" Mid. length breadth 8 1/4" (BLOCK TYPE) Thickness parallel to axis shrunk
 as fitted 3 1/2" Crank webs 1 3/4" Thickness around eye-hole ...
 Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule
 as fitted ... as fitted ...
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule Is the { tube } shaft fitted with a continuous liner { screw }
 as fitted ... as fitted ...
 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
 as fitted ... as fitted ... 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. ... Diameter ... Stroke ... Can one be overhauled while the other is at work
 Feed { No. and size ... Pumps connected to the { No. and size ...
 { How driven ... Main Bilge Line { How driven ...
 Ballast Pumps, No. and size ... Lubricating Oil Pumps, including Spare Pump, No. and size ONE 1 1/4" DIA x 2" STROKE 4.45 PM
 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 Pump Room ... In Holds, &c. ...

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 ...

IN BOILERS, &c.—(Letter for record ...) Total Heating Surface of Boilers ...
 Which Boilers are fitted with Forced Draft ... Which Boilers are fitted with Superheaters ...
 and Description of Boilers ... Working Pressure ...

A REPORT ON MAIN BOILERS NOW FORWARDED?

A DONKEY BOILER FITTED?

If so, is a report now forwarded?

Is the donkey boiler be used for other than domestic purposes?

PLANS. Are approved plans forwarded herewith for Shafting CRANKSHAFT Main Boilers 25.4.50 Auxiliary Boilers ... Donkey Boilers ...
 (If not state date of approval)

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

SPARE GEAR.

Is the spare gear required by the Rules been supplied YES

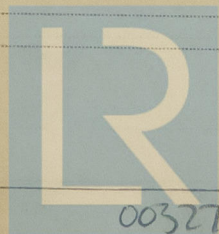
Is the principal additional spare gear supplied 1 off TOP AND BOTTOM END BEARINGS 3 off MAIN BEARING BRASSES 1 off HP & LP
STEEL RINGS 2 off GOV. WEIGHT SPRINGS 1 off GOV. REG. SPRING

The foregoing is a correct description.

FOR PETER BROTHERHOOD LTD.

Manufacturer.

DIRECTOR.



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003275-003271-0035

12.1.51 - 23.1.51 - 26.1.51.
During progress of work in shops - - 8.12.50.
Dates of Survey while building
During erection on board vessel - - -
Total No. of visits 4 (In shops)

Dates of Examination of principal parts—Cylinders 8.12.50. Slides Covers 8.12.50.
Pistons 8.12.50. Piston Rods 12.1.51. Connecting rods 12.1.51.
Crank shaft 23.1.51. 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 S.M. STEEL Identification Mark "E" 705.957.2570.48 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. YES If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) These two Generating Engines have been built under survey in accordance with approved plans and the requirements of the Rules. Steel used in manufacture has been made at works approved by the Committee and under the supervision of the Society's Surveyors. The workmanship is satisfactory and the Engines are in my opinion, eligible to be installed in a vessel classed with the Society.

Satisfactory running tests and governing trials were held and witnessed at the makers works with both Engines coupled to their Generators.

Engine No. 11300 E is coupled to Generator No. 41100.
" " 11300 F " " " 41099.

Certificate to be sent to

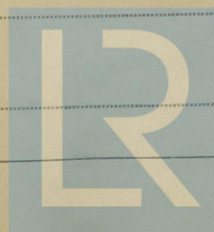
The amount of Entry Fee ... £ : : When applied for,
Special ... £ 8.0.0 9 FEB 1951
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ 1.5.9 19

Date TUES. 11 DEC 1951

(The Surveyors are requested not to write on or below the space for Committee's Minute.)
Committee's Minute

See F.E. moly rpt.

J.B. Smail
Engineer Surveyor to Lloyd's Register of Shipping.



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