

GENERATING

No. 191804



REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 16 NOV 1951

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 Tons (Gross) (Net)
Built at Madbury By whom built Smiths Dock Co. Yard No. E1212 When built

Engines made at PETERBOROUGH By whom made PETER BROTHERHOOD Engine No. 11300E When made 1/51

Boilers made at By whom made Boiler No. When made

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 APPROVED. Crank pin dia. 3 1/2" Mid. length breadth 3/4 (BLOCK TYPE) Thickness parallel to axis

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

Tube Shafts, diameter as fitted Screw Shaft, diameter as fitted Is the tube screw 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 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 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 ONE 1 1/4 DIA x 2 STROKE 4 1/2 RPM

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.

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

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?

Can the donkey boiler be used for other than domestic purposes

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

(If not state date of approval) 25.4.50. General Pumping Arrangements Oil fuel Burning Piping Arrangements

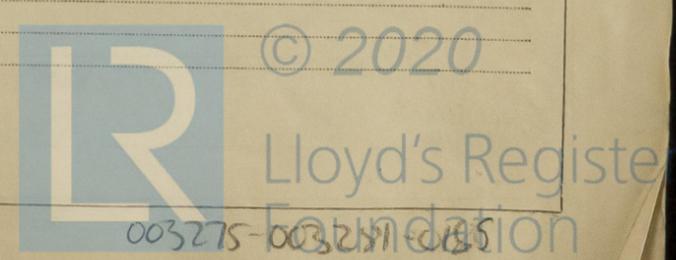
SPARE GEAR.

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 1 LP

The foregoing is a correct description

Peter Brotherhood Ltd. J. Bellamy Director



Dates of Survey while building
 During progress of work in shops - - { 12.1.51 - 23.1.51 - 26.1.51.
 8.12.50.
 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" 725.957, 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 Maker's works with both Engines coupled to their Generators

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

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

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

Date TUES. 11 DEC 1951

Committee's Minute See F.E. moly rpt.



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