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Mdb. Rpt No. 19140

GENERATING

No. 120287

MAY 1950 Rpt. 4.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 2 May 1950 When handed in at Local Office 3 May 1950 Port of LONDON

No. in Survey held at PETERBOROUGH Date, First Survey 30th Nov. 1949 Last Survey 10th Feb. 1950

Reg. Book on the M.V. "LUMEN" (Number of Visits THREE) Tons { Gross 10146 Net 5865

Built at MIDDLESBOROUGH By whom built Messrs. Smiths Dock Co Ltd. Yard No. 1197 When built

Engines made at PETERBOROUGH By whom made Messrs. PETER BROTHERHOOD LTD. Engine Nos. 11780A 11780B When made 1949-50

Boilers made at Dynamics By whom made 211323 211353 by SLD Page, 50HP Boiler No. When made

Registered Horse Power 2 @ 50KW Owners Port belonging to

Nom. Horse Power as per Rule 3.8 each Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Trade for which vessel is intended

ENGINES, &c.—Description of Engines BROTHERHOOD Compound 8" x 12" x 7 1/2" Revs. per minute 500

Dia. of Cylinders 8" HP 12" LP Length of Stroke 7 1/2" No. of Cylinders Two No. of Cranks Two

Crank shaft, dia. of journals as per Rule as approved as fitted 3 1/2" Crank pin dia. 3 1/2" Crank webs Mid. length breadth 7 1/2" Thickness parallel to axis shrunk Mid. length thickness 1 3/4" 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

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 4.4 Gals/min

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

MAIN 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 120 lb.

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 Main Boilers Auxiliary Boilers Donkey Boilers

(If not state date of approval) crankshaft approved 25-4-50 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

Is the spare gear required by the Rules been supplied

State the principal additional spare gear supplied. 1 set piston rings; 1 set governor springs; 1 OFF each Top and Bottom end bearings with bolts.

For PETER BROTHERHOOD LTD.

The foregoing is a correct description.

S. J. McCann DIRECTOR Manufacturer.



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Dates of Survey while building:

- During progress of work in shops: 30-11-49, 24-1-50, 10-2-50
- During erection on board vessel: [blank]

 Total No. of visits: [blank]

Dates of Examination of principal parts:

- Cylinders: 30-11-49, 24-1-50
- Slides: [blank]
- Covers: 30-11-49, 24-1-50
- Pistons: 10-2-50
- Piston Rods: 10-2-50
- Connecting rods: 10-2-50
- Crank shaft: 10-2-50
- Thrust shaft: [blank]
- Intermediate shafts: [blank]
- Tube shaft: [blank]
- Screw shaft: [blank]
- Propeller: [blank]
- Stern tube: [blank]
- Engine and boiler seatings: [blank]
- Engines holding down bolts: [blank]

Completion of fitting sea connections: [blank]
 Completion of pumping arrangements: [blank] Boilers fixed: [blank] Engines tried under steam: [blank]
 Main boiler safety valves adjusted: [blank] Thickness of adjusting washers: 11780A - 955TDS 25-10-48
 Crank shaft material: SM Steel Identification Mark: 11780B - 956TDS - 26-10-48 Thrust shaft material: [blank] Identification Mark: [blank]
 Intermediate shafts, material: [blank] Identification Marks: [blank] Tube shaft, material: [blank] Identification Mark: [blank]
 Screw shaft, material: [blank] Identification Mark: [blank] Steam Pipes, material: [blank] Test pressure: [blank] Date of Test: [blank]

Is an installation fitted for burning oil fuel: [blank] Is the flash point of the oil to be used over 150° F: [blank]
 Have the requirements of the Rules for the use of oil as fuel been complied with: [blank]
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo: [blank] If so, have the requirements of the Rules been complied with: [blank]
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with: [blank]

Is this machinery duplicate of a previous case: NO If so, state name of vessel: [blank]

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

Satisfactory running tests and governor trials were held and witnessed at the Makers' Works of both engines coupled to their generators:
 Engine No 11780 A is coupled to GENERATOR NO 41332 } 110V 454A 500rpm
 - " - No 11780 B " - " - " - " - " No 41333 } made by: The Sunderland Forge & Eng. Co. Ltd. (Certs. att'd)

This generating set has been securely fitted aboard, tried out under working conditions and found satisfactory.

B. S. Bielawski

B.S. Bielawski
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ : : When applied for,
 Special ... £ 8 : 0 : 0 } 3 MAY 1950
 Donkey Boiler Fee ... £ : : : When received,
 Travelling Expenses (if any) £ 2 : 8 : 4 } 19

Date: FRI. 1 SEP 1950

Committee's Minute: See P.E. mch. rpt



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