

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

No. 123700



Date of writing Report

When handed in at Local Office

Received at London Office

22 OCT 1952

No. in Survey held at

Reg. Book.

on the

M.V. "LUCERNA"

Date, First Survey 4. 9. 57.

Last Survey 27. 11. 19 57.

(Number of Visits 2)

Built at Southbank Ld

By whom built Smiths Dock Co Ltd

Engines made at Peterborough

By whom made Peter Brotherhood Ltd

Yard No. 1215

Tons { Gross
Net

Boilers made at

By whom made

Engine No. 11780 E

When built

Registered Horse Power 100.

Owners

Boiler No.

When made 1951.

Nom. Horse Power as per Rule 25

Is Refrigerating Machinery fitted for cargo purposes

Port belonging to

Trade for which Vessel is intended

Is Electric Light fitted

ENGINES, &c.—Description of Engines

Dia. of Cylinders 8" x 12"

Length of Stroke 7 1/2"

No. of Cylinders 2

Revs. per minute 500

Crank shaft, dia. of journals as per Rule

as fitted 3 1/2"

Crank pin dia. 3 1/2"

Crank webs

Mid. length breadth 7 1/2" dia

No. of Cranks 2

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

shaft

If so, state type

Propeller, dia.

Pitch

No. of Blades

Material

Length of Bearing in Stern Bush next to and supporting propeller

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

Pumps { How driven

Pumps connected to the { No. and size

Main Bilge Line { 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

Bilge Pumps;—In Engine and Boiler Room

In Pump Room

Suctions, connected to both Main Bilge Pumps and Auxiliary

In Holds, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size

No. and size

Independent Power Pump Direct Suctions to the Engine Room Bilges,

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

Are all Sea Connections fitted direct on the skin of the ship

Are they fixed sufficiently high on the ship's side to be seen without lifting the stakehold plates

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

What Pipes pass through the bunkers

What pipes pass through the deep tanks

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

No. and Description of Boilers

Which Boilers are fitted with Superheaters

Working Pressure

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED?

Is the donkey boiler to be used for domestic purposes only

If so, is a report now forwarded?

Are approved plans forwarded herewith for Shafting 24. 4. 50 Main Boilers

(If not state date of approval)

Auxiliary Boilers

Donkey Boilers

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

Is the spare gear required by the Rules been supplied

Is the principal additional spare gear supplied

SPARE GEAR.

Yes.

Spare list attached.

The foregoing is a correct description.

For PETER BROTHERHOOD LTD.

DIRECTOR

Manufacturer.



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Lloyd's Register
Foundation

012823-012835-0302

1951. SEP. 4. NOV. 27.

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits 2 (In Shops)

Dates of Examination of principal parts—Cylinders 4. 9. 57. Slides 4. 9. 57. Covers 4. 9. 57.

Pistons 4. 9. 57.

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

Completion of pumping arrangements

Boilers fixed

Engines tried under steam

Main boiler safety valves adjusted

Thickness of adjusting washers

Crank shaft material Forged Steel

Identification Mark T.B.B. 956 25. 10. 48

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 *London Rpt. 123393.*

General Remarks (State quality of workmanship, opinions as to class, &c. *This pair of enclosed lubricated*

2 Cylinder steam reciprocating generating sets have been built under supervision from plans approved by the Society & in accordance with the Requirements of the Rules. Steel used in their manufacture has been made at works approved by the Committee & under the supervision of their surveyors. The workmanship is good & the sets are considered suitable for inclusion in the *L.M.C.* of a classed vessel. The makers of the electric generators - *Hussars, Sunderland Forge & Eng Co Ltd* have submitted certified copies of test results, which are considered suitable.

Eng. No.

Generator No.

11780 E

41572

11780 F.

41573.

These generating sets have been recently fitted on board tried under normal working conditions and found satisfactory.

A. C. Widgung

The amount of Entry Fee ... £ 8 : - : When applied for,
Special ... £ : : 17/12/1951
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ 1 : 5 : 19

Committee's Minute

TUES. 30 DEC 1951

Assigned

See F.E. mchy. rpt malle. 19748



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