

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 15 JAN 1945

Date of writing Report 8-1-1945 When handed in at Local Office 15 JAN 1945 Port of Ipswich

No. in Survey held at 136 Date, First Survey 20-11-44 Last Survey 8-1-1945

Reg. Book "Yic 82" (Number of Visits 3)

on the "Yic 82" A/M 974

Built at Knottingly By whom built John Harker Ltd. Yard No. 183. Tons Gross 1945

Engines made at Biccles By whom made Elliott & Garrood Ltd. Engine No. 662. When built 1945

Boilers made at Amman By whom made Corbman & Co. (Amman) Ltd. Boiler No. 16038. When made 1945

Registered Horse Power Owners Ministry of War Transport. Port belonging to

Nom. Horse Power as per Rule 6.9. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Trade for which vessel is intended Coasting

ENGINES, &c.—Description of Engines Compound Reciprocating

Dia. of Cylinders 10 1/2" - 22" Length of Stroke 14" No. of Cylinders 2 No. of Cranks 2 Revs. per minute 150

Crank shaft, dia. of journals as per Rule 4 3/8" Crank pin dia. 4 3/8" Crank webs Mid. length breadth Thickness parallel to axis 2 7/8"

Intermediate Shafts, diameter as per Rule 4 3/8" as fitted 4 3/8" Thrust shaft, diameter at collars as per Rule 4 3/8" as fitted 4 3/8"

Tube Shafts, diameter as per Rule 4 7/8" as fitted 4 7/8" Is the tube screw shaft fitted with a continuous liner 40

Bronze Liners, thickness in way of bushes as per Rule 4 7/8" as fitted 4 7/8" 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 20"

Propeller, dia. 66" Pitch 86" No. of Blades 4 Material C.I. whether Moveable 40 Total Developed Surface 11.6 sq. feet

Feed Pumps worked from the Main Engines, No. 6m Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. 6m Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work

Feed Pumps No. and size Pumps connected to the Main Bilge Line No. and size How driven

Lubricating Oil Pumps, including Spare Pump, No. and size

Ballast Pumps, 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 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

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 domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting 28-10-41 Main Boilers

Auxiliary Boilers

Donkey Boilers

Superheaters General Pumping Arrangements

Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

The foregoing is a correct description

ELLIOTT & GARROOD, LTD.

Manufacturer.



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012292-012305-0178

7.11.44 21-11-44
During progress of work in shops - - { 20-11-44, 28-11-44, 18-12-44, 8-1-45.
Dates of Survey while building {
During erection on board vessel - - - {
Total No. of visits. *See Log (in shops)*

Dates of Examination of principal parts—Cylinders 28-11-44 Slides 18-12-44 Covers 28-11-44
Pistons 18-12-44 Piston Rods 18-12-44 Connecting rods 18-12-44
Crank shaft 20-11-44 Thrust shaft 20-11-44 Intermediate shafts ✓
Tube shaft ✓ Screw shaft 21-11-44 Propeller 21-11-44
Stern tube 21-11-44 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 *Steel* Identification Mark ✓ Thrust shaft material *Steel* Identification Mark ✓
Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
Screw shaft, material *Steel* 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 *See Lukas Land k²182. (see 81)*
General Remarks (State quality of workmanship, opinions as to class, &c.)

*The machinery has not been constructed in accordance with the requirements of the Society's Rules but has been constructed under the supervision of the Society.
The scantlings are in accordance with the Society's Rules.
The workmanship is of good description.
The machinery, in my opinion, will be eligible for record of L.M.C. (with date) when efficiently installed in a Classed vessel.*

*Above main engine installed in "VIC 82" at Knottingley.
See separate report 4.
W.S. Shields,
Hull.*

The amount of Entry Fee ... £ : : When applied for,
Special ... £ 80.0.0 15 JAN 1945
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ 113.9. 19

W.S. Shields
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute ... FRI. 1 JUN 1945
Assigned ... *See F.C. Machy Rpt.*



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