

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 30.10.1944 When handed in at Local Office 29 DEC 1944 19 44 Port of Space Received at London Office 21 JAN 1945

No. in Survey held at Knittingly, Gooli Date, First Survey 15.8.44 Last Survey 3.11.1944
 Reg. Book Vic 81 A/MS 973 (Number of Visits 8) Tons { Gross 146.49
 Net 51.47

Built at Knittingly By whom built John Harker Ltd. Yard No. 182 When built 1944

Engines made at Beccles By whom made Elliott & Garwood Engine No. 686 When made "

Boilers made at Annan By whom made Cochran & Co (Annan) Ltd Boiler No. 16034 When made "

Registered Horse Power " Owners Ministry of War Transport Port belonging to Trade House
managers Kebleton, Todd & Wilson

Nom. Horse Power as per Rule 24 ✓ Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

Trade for which vessel is intended Coastal Service

Engines, &c.—Description of Engines { Steam reciprocating—Compound Revs. per minute 120 ✓

Dia. of Cylinders 10 1/2" 22" Length of Stroke 14" No. of Cylinders 2 ✓ No. of Cranks 2 ✓

Crank shaft, dia. of journals as per Rule 4.13 Crank pin dia. 4 3/8" ✓ Mid. length breadth " Thickness parallel to axis 2 1/8" ✓
 as fitted 4 3/8" ✓ Crank webs " shrunk Thickness around eye-hole 2" ✓

Intermediate Shafts, diameter as per Rule NONE Thrust shaft, diameter at collars as per Rule 4.13 ✓
 as fitted " as fitted 4 3/8" ✓

Tube Shafts, diameter as per Rule NONE Screw Shaft, diameter as per Rule 4 7/8" ✓ Is the { tube screw } shaft fitted with a continuous liner { No } ✓
 as fitted " as fitted 4 7/8" ✓

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 ✓
 as fitted " as fitted " 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 shaft YES If so, state type Crabtree ✓ 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 Solid ✓ Total Developed Surface 11.6 sq. feet

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

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

Feed Pumps { No. and size 1 as above 1 - Pearson 800 gal Pumps connected to the { No. and size 1 as above 1 - 5 1/4" x 4 3/4" x 5" ✓
 How driven M.E. Ind. Stm Main Bilge Line { How driven M.E. Ind. Stm ✓

Ballast Pumps, No. and size 1 - 5 1/4" x 4 3/4" x 5" as above ✓ Lubricating Oil Pumps, including Spare Pump, 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 1 - 2" ✓

In Pump Room " In Hold, &c. 2 - 2" ✓

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 - 2" ✓ Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 - 2" ✓

Are all the Bilge Suction Pipes in hold and tunnel well fitted with strum-boxes Yes ✓

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 Yes ✓

Are all Sea Connections fitted direct on the skin of the ship Cocks direct. Valves on steel boxes ✓ Are they fitted with Valves or Cocks Both ✓

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes ✓ Are the Overboard Discharges above or below the deep water line Above ✓

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes ✓ Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes ✓

What Pipes pass through the bunkers none ✓ How are they protected ✓

What pipes pass through the deep tanks none ✓ 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 Yes ✓

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 Yes ✓ Is the Shaft Tunnel watertight Part open ✓ Is it fitted with a watertight door " worked from "

MAIN BOILERS, &c.—(Letter for record S ✓) Total Heating Surface of Boilers not stated in Glo. Rpt. No. 68373 5000 ✓

Which Boilers are fitted with Forced Draft none ✓ Which Boilers are fitted with Superheaters none ✓

No. and Description of Boilers 1 Vertical Boiler ✓ Working Pressure 125 lb. 120 lb

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Vertical boiler - Glo Rpt No 68373 attached ✓

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 See Glo Rpt 68373 ✓ Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)

Superheaters ✓ General Pumping Arrangements 5.9.44 ✓ Oil fuel Burning Piping Arrangements ✓
Machinery piping arranged for 30' Coastal Lighter 14.12.43

SPARE GEAR.

Has the spare gear required by the Rules been supplied Please note - No spare gear supplied ✓

State the principal additional spare gear supplied none ✓

The foregoing is a correct description.

Manufacturer.



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During progress of work in shops - - -
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits 8.

1944 AUG 15 SEP 11, 21, OCT 16, 17, 18, 26. NOV 3.

Dates of Examination of principal parts—Cylinders _____ Slides _____ Covers _____
 Pistons _____ Piston Rods _____ Connecting rods _____
 Crank shaft _____ Thrust shaft _____ Intermediate shafts _____
 Tube shaft _____ Screw shaft _____ Propeller 15.8.44
 Stern tube 15.8.44. Engine and boiler seatings 11.9.44. Engines holding down bolts 21.9.44.
 Completion of fitting sea connections 15.8.44.
 Completion of pumping arrangements 16.10.44 Boilers fixed 21.9.44 Engines tried under steam 17.10.44.
 Main boiler safety valves adjusted 16.10.44 Thickness of adjusting washers F $\frac{11}{32}$ A $\frac{10}{32}$.
 Crank shaft material Not tested by Identification Mark Thrust shaft material Identification Mark
 Intermediate shafts, material — LR — Identification Marks Tube shaft, material — Identification Mark
 Screw shaft, material Identification Mark Steam Pipes, material Copper Test pressure 250 lb. Date of Test 16.9.44.
 Is an installation fitted for burning oil fuel No ✓ 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 No ✓
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No ✓ 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

Similar to VIC 54

General Remarks (State quality of workmanship, opinions as to class, &c.)

The above machinery installed in Vic 81 at Knottingley and took in accordance with the specification, the Rules, the Secretary's letters and approved plans.

The materials and workmanship are good

Machinery tried under working conditions and found satisfactory.

Eligible in my opinion to be classed LMC 11.44 O.G.

C 2 Cyl 10½" & 22" - 14" NHP 24

1 Vertical Boiler 125 lb G.S. 27 # H.S. 500 #.

120 lb.

Total fee

ME 8-0-0

Boiler 5-5-0

Balance F.O. 5-15-0

The amount of Entry Fee ... £ : : When applied for,
 Special Balance for F.O. ... £ 5 15 : : 21 DEC 1944
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 19

W. L. Shields

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI, 16 FEB 1945

Assigned LMC 11.44 O.G.

1 Vertical boiler WP. 120 lb



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