

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 6 MAR 1945
 Date of writing Report 23-2-1945 When handed in at Local Office 6 MAR 1945 Port of *Edinburgh*
 No. in Survey held at *Garmonth* Date, First Survey 10-10-44 Last Survey 23-2-1945
 Reg. Book *Vic 99* (Number of Visits 12) Tons Gross
 on the *Vic 99* A/Ms 1088 Net
 Built at *Knottingley* By whom built *John Harker & Son Ltd.* Yard No. 184 When built 1945
 Engines made at *Garmonth* By whom made *Crabtree (1931) Ltd.* Engine No. 682 When made 1945
 Boilers made at *✓* By whom made *✓* Boiler No. *✓* When made *✓*
 Registered Horse Power *✓* Owners *Trimming & War Transport* Port belonging to *✓*
 Nom. Horse Power as per Rule *✓* 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* Revs. per minute 150
 Dia. of Cylinders 10 1/2" - 22" Length of Stroke 14" No. of Cylinders *Two* No. of Cranks *Two*
 Crank shaft, dia. of journals as per Rule 4 3/8" Crank pin dia. 4 3/8" Mid. length breadth *✓* Thickness parallel to axis 2 7/8" *✓*
 as fitted 4 3/8" Crank webs *✓* shrunk Thickness around eye-hole 2" *✓*
 as per Rule *✓* Mid. length thickness *✓*
 Intermediate Shafts, diameter as per Rule 4 26" as fitted 4 3/8" *✓*
 as fitted *✓* Thrust shaft, diameter at collars as fitted 4 3/8" *✓*
 Tube Shafts, diameter as per Rule *✓* Screw Shaft, diameter as per Rule 4 7/8" as fitted 4 7/8" *✓* Is the *tube* shaft fitted with a continuous liner *✓*
 as fitted *✓* as fitted *✓* Is the *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
 as fitted *✓* as fitted *✓* 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 *No* Total Developed Surface 11-6 sq. feet
 Feed Pumps worked from the Main Engines, No. 6 Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work *✓*
 Bilge Pumps worked from the Main Engines, No. 6 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 *✓* 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 *✓* Suctions, connected both to Main Bilge Pumps and Auxiliary
 Bilge Pumps:—In Engine and Boiler Room *✓* In Holds, &c. *✓*
 In Pump Room *✓*

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 *✓*
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? *✓* If so, is a report now forwarded? *✓*
 IS A DONKEY BOILER FITTED? *✓*
 Can the donkey boiler be used for other than domestic purposes *✓*
 PLANS. Are approved plans forwarded herewith for Shafting 28-10-41 Main Boilers *✓* Auxiliary Boilers *✓* Donkey Boilers *✓*
 (If not state date of approval)
 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.

FOR CRABTREE (1981) LTD.

Manufacturer.

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Lloyd's Register

005779-005790-0010

10:10:44, 27:10:44, 29:11:44, 29:11:44, 29:12:44.
 7:11:44, 24:11:44, 6:12:44, 29:1:45, 9:1:45, 18:1:45, 23:2:45

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits. 12 (in shops)

Dates of Examination of principal parts—Cylinders. 9.1.45 Slides 24.11.44 Covers 9.1.45

Pistons 24.11.44 Piston Rods 6.12.44 Connecting rods 6.12.44

Crank shaft 29.1.45 Thrust shaft 29.1.45 Intermediate shafts ✓

Tube shaft ✓ Screw shaft 24.11.44 Propeller 24.11.44

Stern tube 24.11.44 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 ✓

duplicate of a previous case No If so, state name of vessel Land 7665

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

The engine 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 engine, in my opinion will be eligible for record of L.M.C. (with date) when efficiently installed on board a Classed vessel.

Above main engine installed in 'Vic 99' at Knottingly - see separate report 4 on same. W. Shields
Thru.

Certificate to be sent to

The amount of Entry Fee ... £ : : When applied for, 6 MAR 1945

Special ... £ 8 : 0 : When received, 19

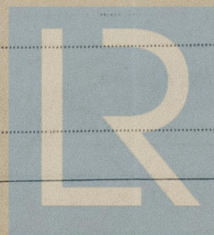
Donkey Boiler Fee ... £ : : When received, 19

Travelling Expenses (if any) £ 1 : 13 : 0

Date FRI. 7 SEP 1945

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

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



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If not, state whether, and when, one will be sent? No

Is a Report also sent on the Hull of the Ship? No

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