

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office **11 DEC 1947**

Date of writing Report 19... When handed in at Local Office 19... Port of **Hull**
 No. in Survey held at **Gainsborough Hull** Date, First Survey **25/10/44** Last Survey **1/12/44** 19...
 Reg. Book **on the Single Screw Steel Lighter Vic 54 A/MS 958** (Number of Visits **12**) Tons { Gross **146.49** Net **51.47**
 Built at **Gainsborough** By whom built **J.S. Watson Ltd.** Yard No. **1552** When built **1944**
 Engines made at **Beebles** By whom made **Elliott & Garwood Ltd.** Engine No. **679** When made
 Boilers made at **Annan** By whom made **Bochran & Co (Annan) Ltd.** Boiler No. **16037** When made
 Registered Horse Power... Owners **Ministry of War Transport** Port belonging to
 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**

GINES, &c.—Description of Engines **Steam reciprocating compound** Revs. per minute **150**
 Dia. of Cylinders **10 1/2" x 22"** Length of Stroke **14"** No. of Cylinders **2** No. of Cranks **2**
 Crank shaft, dia. of journals as per Rule **4 3/8** **4.32 for deep water** Mid. length breadth... Thickness parallel to axis **2 7/8**
 as fitted **4 3/8** Crank pin dia. **4 3/8** Crank webs shrunk Thickness around eye-hole **2** **4.33 for deep water**
 Intermediate Shafts, diameter as per Rule **(3.93) for smooth water** as per Rule **4.13 for smooth water**
 as fitted **4 1/8 for deep water at 125/16** Thrust shaft, diameter at collars as fitted **4 3/8**
 Main Shafts, diameter as per Rule... as fitted **4 7/8** Is the { tube } shaft fitted with a continuous liner { **NO** }

Bronze Liners, thickness in way of bushes as per Rule... Thickness between bushes... 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 **YES** so, state type **brass** Length of Bearing in Stern Bush next to and supporting propeller **20"**

Propeller, dia. **60"** Pitch **86"** No. of Blades **4** Material **C.I.** whether Moveable **No** Total Developed Surface **11.6** sq. feet
 Suction 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
 Suction Pumps { No. and size **1 - 2 1/2" x 6"** **1 have 80 gals/hr** Pumps connected to the { No. and size **1 - 5 1/4" x 4 3/4" x 6"** **1 - 2 1/8" x 6"** }
 How driven **M.E.** **h.e. st.** Main Bilge Line How driven **h.e. st.** **M.E.**
 Ballast Pumps, No. and size **1 - 5 1/4" x 4 3/4" x 6"** Lubricating Oil Pumps, including Spare Pump, No. and size **NONE**
 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"** **1 - 1 1/2"**
 In Pump Room... In Holds, &c. **1 - 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 holds 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 **Yes or on robust 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... 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 **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 of S.K.** Is it fitted with a watertight door... worked from...

MAIN BOILERS &c.—(Letter for record **S**) Total Heating Surface of Boilers **500 sq. ft.**
 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? **Yes**
 IS A DONKEY BOILER FITTED? **NO** If so, is a report now forwarded? ...

PLANS. Are approved plans forwarded herewith for Shafting **28-10-41** Main Boilers **In S.K. Rpt No. 68518.** Auxiliary Boilers... Donkey Boilers...
 Superheaters... General Pumping Arrangements **14.12.43** Oil fuel Burning Piping Arrangements...

SPARE GEAR.
 Is the spare gear required by the Rules been supplied **Only spare propeller supplied.**
 Is the principal additional spare gear supplied...

The foregoing is a correct description.

Manufacturer.

007177-0007190-0016



During progress of work in shops - - { *See Spanish Rpt. 112, 216*

Dates of Survey while building { *Scr 21*
 1944 / Oct 25, 27, Nov 1, 8, 9, 13, 14, 16

During erection on board vessel - - - {

Total No. of visits _____

Dates of Examination of principal parts—Cylinders _____ Slides _____ Covers _____

Pistons *See Spanish* Piston Rods *Report No* Connecting rods _____

Crank shaft *See Spanish* Thrust shaft *Report No* Intermediate shafts *112, 216*

Tube shaft _____ Screw shaft _____ Propeller _____

Stern tube *21-9-44* Engine and boiler seatings *25/10/44* Engines holding down bolts *8/11/44*

Completion of fitting sea connections *21-9-44*

Completion of pumping arrangements *16-11-44* Boilers fixed *8/11/44* Engines tried under steam *16-11-44*

Main boiler safety valves adjusted *16-11-44* Thickness of adjusting washers *F & A 5/8"*

Crank shaft material _____ Identification Mark _____ Thrust shaft material _____ Identification Mark _____

Intermediate shafts, material *See Spanish* Identification Marks *Report No* Tube shaft, material *112, 216* Identification Mark _____

Screw shaft, material _____ Identification Mark _____ Steam Pipes, material *Copper* Test pressure *450 #* Date of Test *13-11-44*

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 ✓

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 *YES* ✓ If so, state name of vessel *VIC 81*

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

The above machinery installed in Vic 54 at Gainborough and Hull in accordance with the Specification, the Rules, Secretary's letters & approved plans. The materials and workmanship are good.

Machinery tried under working conditions found satisfactory.

Eligible in my opinion to be classed

LMC 11, 44 O.G.

C 2 CYL 10 1/2" & 22" - 14" NHP 24

1 Vertical boiler 125 1/2 GS 27 # HS 500 #
120lb.

Balance for fitting out £ 5 - 15

The amount of Entry Fee ... £ : : } When applied for,

Special £ : : } _____ 19

Donkey Boiler Fee £ : : } When received,

Travelling Expenses (if any) £ : : } _____ 19

J. Shields
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____ *FRI. 29 DEC 1944*

Assigned _____ *LMC 12, 44*

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



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