

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 5 MAY 1943

of writing Report 9.3.1943 When handed in at Local Office 19 Port of Isle

in Survey held at Isle Date, First Survey 8.7.42 Last Survey 11.4.43 1943
 (Number of Visits 13)

on the Single Screw Oil Fuel Lighter "C 606" Tons { Gross 501 Net 227

Built at Isle By whom built Henry Swan Ltd. Yard No. 5427 When built 1943

Engines made at Birmingham By whom made Beecham & Co. Ltd. Engine No. 9960 When made

Boilers made at Glasgow By whom made James John Thompson (Mar. Eng.) Ltd. Boiler No. 5189 When made

Registered Horse Power Owners Admiralty Port belonging to

Nom. Horse Power as per Rule 68 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES

Trade for which vessel is intended Government Service

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 160

Dia. of Cylinders 11, 18, 30 Length of Stroke 18 No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule Crank pin dia. Crank webs Mid. length breadth Thickness parallel to axis
 as fitted Crank webs Mid. length thickness shrunk Thickness around eye-hole

Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as fitted
 as fitted See Birmingham Report No. 37.

Tube Shafts, diameter as per Rule Screw Shaft, diameter as fitted Is the { tube screw } shaft fitted with a continuous liner { no }

Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes 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. Is an approved Oil Gland or other appliance fitted at the after end of the tube

at YES If so, state type NEWARK Length of Bearing in Stern Bush next to and supporting propeller 2-3

Propeller, dia. 7' 6" Pitch 6' 9" No. of Blades 4 Material C.I. whether Moveable YES Total Developed Surface 23 sq. feet

Feed Pumps worked from the Main Engines, No. One Diameter 2 1/4" Stroke 9" Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. One Diameter 2 1/4" Stroke 9" Can one be overhauled while the other is at work

Feed Pumps { No. and size One 2 1/4 x 9. One 6 x 4 1/2 x 10 Suction Pumps connected to the { No. and size One 2 1/2 x 9. One 2 1/2. One 5 x 3 1/2 x 6 sup.
 How driven ME. Ind. Strm. Main Bilge Line { How driven ME. St. Ejector. Ind. Strm.

Ballast Pumps, No. and size One 6 x 5 1/2 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 One 2" & one 3 1/2" in ER. One 2 1/2" in ER (Ejector). One 2" in BR.

In Pump Room One 4" In Holds, &c. One in each Coffinham 2". One 2" in storeroom

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 3 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 2", one 3 1/2" in ER, One 2" in BR 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 Blow down tank, cocked direct. 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. 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 ER. Is it fitted with a watertight door. worked from

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 1280 sq. ft.

Which Boilers are fitted with Forced Draft no Which Boilers are fitted with Superheaters None

No. and Description of Boilers 1 SE multibular Working Pressure 200 lb

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? no 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 Main Boilers Auxiliary Boilers Donkey Boilers

(If not state date of approval)

Superheaters General Pumping Arrangements 12.2.42. Oil fuel Burning Piping Arrangements 12.2.42.

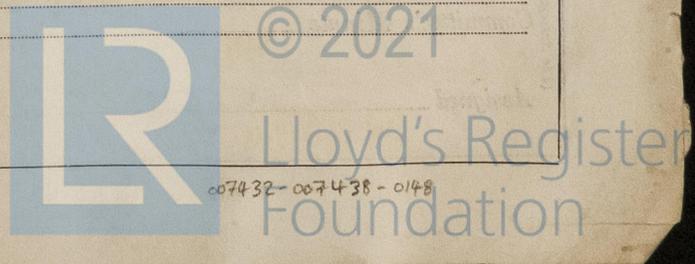
SPARE GEAR.

Has the spare gear required by the Rules been supplied. Yes

State the principal additional spare gear supplied. See attached list

The foregoing is a correct description.

Manufacturer.



C606

During progress of work in shops - - { *See Birmingham Rpt. N° 37*

Dates of Survey while building { 1942 JULY 8, DEC 23; 1943 JAN 14, 15, FEB 17, 23, 24, 26 MARCH 4, 8, 16, APRIL 11.

Total No. of visits *13*

Dates of Examination of principal parts - Cylinders *See Birmingham Rpt. N° 37* Slides Covers

Pistons Piston Rods Connecting rods

Crank shaft Thrust shaft Intermediate shafts *✓*

Tube shaft *✓* Screw shaft *14.1.43* Propeller *14.1.43*

Stern tube *14.1.43* Engine and boiler seatings *14.1.43* Engines holding down bolts *17-2-43*

Completion of fitting sea connections *18-3-43*

Completion of pumping arrangements *8-3-43* Boilers fixed *17-2-43* Engines tried under steam *8-3-43, 11-4-43*

Main boiler safety valves adjusted *4-3-43* Thickness of adjusting washers *Both 1/32"*

Crank shaft material *See Birmingham Rpt. N° 37* Identification Mark *37* Thrust shaft material Identification Mark

Intermediate shafts, material Identification Marks *—* Tube shaft, material Identification Mark *—*

Screw shaft, material *F. I. 5H* Identification Mark *19.1.43 HDB* Steam Pipes, material *Steel* Test pressure *600 lb* Date of Test *1-3-43*

Is an installation fitted for burning oil fuel *Yes* Is the flash point of the oil to be used over 150° F. *Yes*

Have the requirements of the Rules for the use of oil as fuel been complied with *Yes*

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo *Oil tanker* If so, have the requirements of the Rules been complied with *Yes*

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 *C605* *1942 Rpt. N° 51818*

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

The machinery of this vessel has been installed in accordance with approved plan, the Rules & Admiralty requirements. The workmanship was noticed on good. The machinery has been tested under working conditions and found satisfactory in every respect.

*Eligible to have record, when classed, * LMC 4.43. O.G. and the notation of T 3 cy. 11', 30" - 18". 68 NHP. 15B 200 lb 2 cf HS 1280. Fitted for oil fuel 4.43. FP above 150° F.*

The amount of Entry Fee	£	:	:	When applied for,
Special <i>1st E. (M) Part</i>	£	2	-	<i>4</i> MAY 1943 19
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	19

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

FRI. 14 MAY 1943

Committee's Minute
Assigned *See je. mach. rpt.*



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