

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office. 24 MAY 1943

Writing Report 19 When handed in at Local Office 19 Port of HULL

Survey held at HULL Date, First Survey 30. 10. 42. Last Survey 9. 5. 19 43.

Book (Number of Visits 59.)

on the H.M. TRAWLER FUSILIER Tons { Gross 580 Net 182

at BEVERLEY By whom built Chas. D. Holmes & Co. Yard No. 707 When built 1943

made at HULL By whom made Chas. D. Holmes & Co. Engine No. 1640 When made

made at HULL By whom made Chas. D. Holmes & Co. Boiler No. 1640 When made

l Horse Power Owners THE ADMIRALTY Port belonging to

e Power as per Rule 165. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes.

which vessel is intended Government Service

Description of Engines Triple Expansion CONTRACT. Revs. per minute 123.

inders 15", 25", 42" Length of Stroke 27" No. of Cylinders 3 No. of Cranks 3

as per Rule 8.37. Mid. length breadth 16 1/8" Thickness parallel to axis 5 1/2"

ft, dia. of journals 8 1/2" Crank pin dia. 8 1/2" Crank webs shrunk Thickness around eye-hole 3 13/16"

as fitted 8 1/2" Mid. length thickness 5 1/2"

ate Shafts, diameter as per Rule 7.97" Thrust shaft, diameter at collars as per Rule 8.37"

as fitted 8 1/8" as fitted 8 1/2"

fts, diameter as per Rule Screw Shaft, diameter as per Rule 8.867"

as fitted NONE as fitted 9" Is the { tube screw } shaft fitted with a continuous liner { Yes }

iners, thickness in way of bushes as per Rule 566. Thickness between bushes as per Rule 311

as fitted 19 1/2" as fitted 1 1/2" Is the after end of the liner made watertight in the

boss Yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Continuous.

er 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 -

ers 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

No If so, state type - Length of Bearing in Stern Bush next to and supporting propeller 42"

, dia. 10'-9" Pitch 11'-0" No. of Blades 4 Material C.I. whether Moveable Solid Total Developed Surface 42 1/2 sq. feet

mps worked from the Main Engines, No. 2 Diameter 2 5/8" Stroke 16" Can one be overhauled while the other is at work Yes.

mps worked from the Main Engines, No. 2 Diameter 2 5/8" Stroke 16" Can one be overhauled while the other is at work Yes.

No. and size One 6" x 4 1/2" x 6" Duplex Pumps connected to the { No. and size One 7" x 5" x 6" Duplex.

How driven Independent Rec Main Bilge Line { How driven Independent Rec ALSO one 3" Recan

Pumps, No. and size One 7" x 5" x 6" Duplex Lubricating Oil Pumps, including Spare Pump, No. and size None Ejector.

independent means arranged for circulating water through the Oil Cooler None Suctions, connected to both Main Bilge Pumps and Auxiliary

pumps: - In Engine and Boiler Room Two @ 2" Dia One @ 3" Dia

mp Room In Holds, &c. One @ 2" Dia in each of the following Magazine

uses Rec. Spirit room D.C. Stores & Forward Hold. and After peak.

Water Circulating Pump Direct Bilge Suctions, No. and size One 5" Independent Power Pump Direct Suctions to the Engine Room Bilges,

l size One 3" Bilge Ejector (Recan) Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes.

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.

Sea Connections fitted direct on the skin of the ship Yes. Are they fitted with Valves or Cocks Cocks & valves.

y 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.

y 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.

Pipes pass through the bunkers Frd Suctions How are they protected plated

pipes pass through the deep tanks - None Have they been tested as per Rule

l Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.

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

rtment to another Yes. Is the Shaft Tunnel watertight - Is it fitted with a watertight door. - worked from -

BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 2551 sq. ft.

Boilers are fitted with Forced Draft Yes. Which Boilers are fitted with Superheaters None

nd Description of Boilers One S.B. Working Pressure 225 lb / sq. in.

REPORT ON MAIN BOILERS NOW FORWARDED? Yes.

1 DONKEY BOILER FITTED? No. If so, is a report now forwarded? -

he donkey boiler be used for domestic purposes only -

NS. Are approved plans forwarded herewith for Shafting 19-8-42 Main Boilers 29-5-42 Auxiliary Boilers - Donkey Boilers -

(If not state date of approval)

heaters - General Pumping Arrangements 21-7-42 Oil fuel Burning Piping Arrangements -

to be includ SPARE GEAR.

Water Car the spare gear required by the Rules been supplied Yes.

Tons the principal additional spare gear supplied See attached list

One Set 8 Recan & Water piston Rings for all Auxiliaries

7 Rings & Springs for MP & LP Pistons

Two Eccentric Rods & Graps for Main Engines

One Plummer Block

3 Main Engine Glands Escape Valve Springs

The foregoing is a correct description.

CHARLES D. HOLMES & CO., LTD.

W.R. Evans Manufacturer.

© 2020 Lloyd's Register Foundation

004037-004041-0027

FUSILIER.

Dates of Survey while building

During progress of work in shops -- 1942. Oct. 30. Nov. 6, 13, 23, 25. Dec. 3, 14, 18, 21, 23, 24. 1943. Jan. 1, 4, 6, 13, 14, 15, 18, 19, 22, 23. Feb. 1, 5, 6, 12, 22, 24, 26. Mar. 1, 4, 5, 9, 10, 15, 16, 18. Apr. 5.

During erection on board vessel --- 1942 DEC 16 1943 JAN 13, 29 FEB 11 MAR 10, 19, 24, 26, 30, 31 APRIL 2, 8, 13, 16, 21, 28, 29, 30. MAY 4, 8, 9.

Total No. of visits 59.

Dates of Examination of principal parts--Cylinders 18/1/43. 29/1/43. 15/1/43. Slides 29/1/43. Covers 18/1/43. 29/1/43.

Pistons 12/2/43. 5/2/43. Piston Rods 29/1/43. Connecting rods 29/1/43.

Crank shaft 14-1-43. Thrust shaft 21/12/42. Intermediate shafts 4/1/43.

Tube shaft None. Screw shaft 3/12/42. Propeller 16/12/42.

Stern tube 16/12/42. Engine and boiler seatings 24-3-43. Engines holding down bolts 24-3-43.

Completion of fitting sea connections 16/12/42.

Completion of pumping arrangements 22/4/43. Boilers fixed 19.3.43. Engines tried under steam 22/4/43. 30/4/43.

Main boiler safety valves adjusted 22/4/43. Thickness of adjusting washers P 3/8" S 1/2"

Crank shaft material F.I. Steel Identification Mark 1667 JS. Coupling 9054. Jamel 9056 CP. 29/1/43. Identification Mark 9438 CP. 29/1/43. Identification Mark 9054.

Intermediate shafts, material F.I. Steel Identification Marks 9043. CP. 17-9-42. Tube shaft, material None Identification Mark 23-0.

Screw shaft, material F.I. Steel Identification Mark 9052. CP. 16-9-42. Steam Pipes, material Steel Test pressure 675 lb Date of Test 13/4/43.

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 H.M.T. **GRENADIER**.

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

The Machinery of this Vessel has been constructed in accordance with the approved Admiralty plans, the Specification and the Society's Rules, of Keble materials, supplied by firms approved by the Society.

The Workmanship and Materials are good.

The Machinery and Auxiliaries have been fitted aboard and when tried Steam at a head fell paise as practicable in the basin, were found satisfactory in every respect.

The Vessel is eligible, in our opinion, when classed to have the records

* LMC 5,43 and T.S.(CL) and Notation T.3 Cy. 15", 25", 42" - 165 NHP. 225 LB. 15B. 3 CF. 65.64. HS. 2551 FD.

The amount of Entry Fee ... £ 4 : - : When applied for, 21 MAY 1943

Special ... £ 40 : - : When received, 19

Donkey Boiler Fee ... £ 41 : - : 19

Travelling Expenses (if any) £ : : 19

FRI. 28 MAY 1943

Committee's Minute

Assigned

+ LMC 5.43
FD CL

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



© 2020

Lloyd's Register Foundation