

Rpt. 4b.

# REPORT ON OIL ENGINE MACHINERY.

No. 71815.

Received at London Office

11 JUN 1947

Date of writing Report 9-6-1947 When handed in at Local Office 9.6.47

Port of GLASGOW

No. in Survey held at GLASGOW

Date, First Survey 29.10.45 Last Survey 4 6 1947

Reg. Book. Single on the Triple Screw vessel MOTOR VESSEL "LA HAGUE"

Number of Visits 46 Tons Gross 4027 Net 2224

Built at GLASGOW By whom built HARLAND & WOLFF LTD.

Yard No. 13436 When built 1947

Engines made at GLASGOW By whom made HARLAND & WOLFF LTD.

Engine No. 1343 When made 1947

Donkey Boilers made at By whom made

Boiler No. When made

Brake Horse Power 3500 Owners THE FRENCH GOVERNMENT

Port belonging to NANTES

Nom. Horse Power as per Rule 1217 1220 = MN Is Refrigerating Machinery fitted for cargo purposes. YES

Is Electric Light fitted. YES

Trade for which vessel is intended OCEAN GOING.

OIL ENGINES, &c. Type of Engines HEAVY OIL AIRLESS INJECTION 2 or 4 stroke cycle 2 Single or double acting SINGLE

Maximum pressure in cylinders 700 lb/sq. in. Diameter of cylinders 620 mm Length of stroke 1150 mm No. of cylinders 10 No. of cranks 10

Mean Indicated Pressure 100 lb/sq. in. Span of bearings, adjacent to the crank, measured from inner edge to inner edge 816 mm Is there a bearing between each crank YES

Revolutions per minute 135 Flywheel dia. 2136 mm Weight 2000 Kgs. Means of ignition Comp. Kind of fuel used Diesel

Crank Shaft, Solid forged dia. of journals 425 mm Crank pin dia. 445 mm Crank webs Mid. length breadth 825 mm Thickness parallel to axis 280 mm

as fitted 445 mm WITH 150% D.C. HOLE WITH 170% D.C. HOLE Mid. length thickness 280 mm Thickness around eye hole 251.5 mm

Flywheel Shaft, diameter as per Rule 425 mm Intermediate Shafts, diameter as per Rule 13.87 in. Thrust Shaft, diameter at collars as fitted 440 mm

as fitted 445 mm as fitted 1448 mm as per Rule 15.16 in. Is the tube screw shaft fitted with a continuous liner YES

Tube Shaft, diameter as fitted 15.34 in. as per Rule 15.34 in. as fitted 15.34 in. as per Rule 15.34 in.

Screw Shaft, diameter as per Rule 15.34 in. as fitted 15.34 in. as per Rule 15.34 in. as fitted 15.34 in.

Bronze Liners, thickness in way of bushes as per Rule 13.16 in. Thickness between bushes as per Rule 9/16 in. Is the after end of the liner made watertight in the propeller boss YES

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner YES

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 YES

If two liners are fitted, is the shaft lapped or protected between the liners YES

Is an approved Oil Gland or other appliance fitted at the after end of tube shaft NO

Length of bearing in Stern Bush next to and supporting propeller 3'3"

Propeller, dia. 15'6" Pitch 12'9" No. of blades 4 Material Bronze whether moveable NO Total developed surface 90 sq. feet

Method of reversing Engines Direct Is a governor or other arrangement fitted to prevent racing of the engine when declutched YES

Lubrication Forced Thickness of cylinder liners 42 mm Are the cylinders fitted with safety valves YES

Are the exhaust pipes and silencers water cooled YES

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AIR RECEIVERS:—Have they been made under survey yes State No. of report or certificate Z 1742 (CERT. ATTACH)

Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes  
Can the internal surfaces of the receivers be examined and cleaned yes Is a drain fitted at the lowest part of each receiver yes

Injection Air Receivers, No. None Cubic capacity of each - Internal diameter - thickness -  
Seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -

Starting Air Receivers, No. 2 Total cubic capacity 5400 cu ft Internal diameter 17 1/2" thickness 1 1/2"  
Seamless, lap welded or riveted longitudinal joint Welded Material Steel Range of tensile strength 29/33 lb Working pressure 35.6 lb

IS A DONKEY BOILER FITTED No If so, is a report now forwarded -  
Is the donkey boiler intended to be used for domestic purposes only -

PLANS. Are approved plans forwarded herewith for shafting 30-4-46 Receivers Approved at Belfast 11-3-46 Separate fuel tanks 16-3-47  
(If not, state date of approval) General pumping arrangements 13-9-46 Pumping arrangements in machinery space 13-9-46

Donkey boilers - Oil fuel burning arrangements - **SPARE GEAR.**

Has the spare gear required by the Rules been supplied yes (See Attached List for Main & Aux. Engines)  
State the principal additional spare gear supplied Propeller shaft and C. I. propeller

MARKS ON SPARE SHAFT

LLOYDS  
S5046  
EB  
27595  
EE3-6-46

The foregoing is a correct description, Manufacturer.

Wm. J. Wright

Dates of Survey while building  
During progress of work in shops - 1945 Dec 29 Dec 17 1946 Jan 20 Apr 18 May 2 10 16 23 27 29 30 Jun 3 6 10 17 19 26 Jul 1 3 5 30 Aug 1 2 5 6 7 8 12 14 15 21 22 26 27 29 Jan 2 4 9 10 12 15 16 18 19 20 23 24 25 30 31 Nov 4 6 7 11 12 14 15 20 21 25 27 28 29 Dec 2  
During erection on board vessel - 5-6 1947 Jan 9 16 20 21 22 3 7 20 21 22 23 24 25 26 27 28 29 Feb 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 Mar 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 Apr 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 May 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 Jun 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 Jul 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 Aug 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 Sep 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 Oct 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 Nov 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 Dec 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29  
Total No. of visits 96

Dates of examination of principal parts—Cylinders Aug/Nov 46 Covers 18-11-46 Pistons 9-11-46 Rods 9-11-46 Connecting rods 7-11-46  
Crank shaft 21-10-46 Flywheel shaft - Thrust shaft 24-10-46 Intermediate shafts 21-8-46 Tube shaft -

Screw shaft 26-8-46 Propeller 7-8-46 Stern tube 12-8-46 Engine seatings 29-1-47 Engine holding down bolts 19-5-47  
Completion of fitting sea connections 10-9-46 Completion of pumping arrangements 4-6-47 Engines tried under working conditions 4-8-47

Crank shaft, material WEBS. C. S. Identification mark SEM 21-10-46 Flywheel shaft, material LLOYDS Identification mark LLOYDS N° 461  
Thrust shaft, material STEEL Identification mark SEM 24-10-46 Intermediate shafts, material S.M.S. Identification marks SEM 21-8-47  
Tube shaft, material - Identification mark - Screw shaft, material STEEL Identification mark SEM 26-8-47

Identification marks on air receivers N° 359 7362  
LLOYDS TEST  
584 LBS/D  
WP 356 LBS/D  
J.M.A. 20-9-46

Is the flash point of the oil to be used over 150°F yes  
Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with yes

Description of fire extinguishing apparatus fitted Examine fire hose  
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 no If so, state name of vessel -

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been constructed under special survey in accordance with the Rules and approved plans  
The materials and workmanship are good  
The machinery has been satisfactorily installed on board the vessel,  
tried under full working conditions and found satisfactory, and  
is eligible in our opinion to have Record of MNCB 47 and T.S. C.L

NOTE:—The torsional vibration characteristics are in accordance with London Letter dated 5<sup>th</sup> July 1946 YH- for series speed 20135 rpm

The amount of Entry Fee ... £ ...  
Special ... £ 186 :  
Donkey Boiler Fee... £ ...  
Travelling Expenses (if any) £ ...

When applied for 10 JUN 1947  
When received 19

For L. E. Murdoch & self  
N. Russell  
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

Assigned 1-1-47 6-47 die Eng.