

Rpt. 4b.

REPORT ON OIL ENGINE MACHINERY.

No. 14029

Received at London Office

JAN 1945

Date of writing Report 19 When handed in at Local Office 7/9/1945 Port of Belfast
No. in Survey held at Belfast Date, First Survey 28 April 1944 Last Survey 31 Aug. 1945
Reg. Book. Number of Visits 86
Single on the Twin Triple Quadruple Screw vessel "BRITISH SUPREMACY"
Built at Belfast By whom built Harland & Wolff Ltd Yard No. 1284 When built 1945
Engines made at Glasgow By whom made Harland & Wolff Ltd Engine No. 9508 When made 1945
Donkey Boilers made at Belfast By whom made Harland & Wolff Ltd Boiler No. 1284 When made 1945
Brake Horse Power 3,200 Owners British Tankers Ltd Port belonging to London
Nom. Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
Trade for which vessel is intended Barge of Petroleum in Bulk

OIL ENGINES, &c. — Type of Engines Heavy 6 cyl. H.W. B.W. Type 2 or 4 stroke cycle 4 Single or double acting Single
Maximum pressure in cylinders 700 lb/sq. in. Diameter of cylinders 740 mm Length of stroke 1500 mm No. of cylinders 6 No. of cranks 6
Mean Indicated Pressure 128 lb/sq. in. Span of bearings, adjacent to the crank, measured from inner edge to inner edge Is there a bearing between each crank
Revolutions per minute 115 Flywheel dia. 2,489 mm Weight 2590 kgs. Means of ignition Kind of fuel used

Crank Shaft, Solid forged as per Rule dia. of journals as fitted Crank pin dia. Crank webs Mid. length breadth Thickness parallel to axis
Semi built as fitted Crank webs Mid. length thickness Thickness around eye
All built as fitted

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thrust Shaft, diameter at collars as per Rule
as fitted 17" as fitted

Tube Shaft, diameter as per Rule Screw Shaft, diameter as per Rule Is the tube shaft fitted with a continuous liner
as fitted 16" as fitted yes

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 13" as fitted 3/32" 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.

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 tube shaft. no If so, state type Length of bearing in Stern Bush next to and supporting propeller 5'-0"

Propeller, dia. 15'-6" Pitch 12'-0" No. of blades 4 Material Bronze whether moveable no Total developed surface 75 sq. feet

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

lubrication Thickness of cylinder liners Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled

or lagged with non-conducting material. If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned

back to the engine. Cooling Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel.

Bilge Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work.

Pumps connected to the Main Bilge Line No. and size How driven

Is the cooling water led to the bilges. If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

arrangements.

Ballast Pumps, No. and size Power Driven Lubricating Oil Pumps, including spare pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler. Suctions, connected to both main bilge pumps and auxiliary

bilge pumps, No. and size:—In machinery spaces. In pump room.

In holds, &c.

Independent Power Pump Direct Suctions to the engine room bilges, No. and size

Are all the bilge suction pipes in holds and tunnel well fitted with strum-boxes. Are the bilge suction in the machinery spaces 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. yes Are they fitted with valves or cocks. yes Are they fixed

sufficiently high on the ship's side to be seen without lifting the platform 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

If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork.

Main Air Compressors, No. No. of stages diameters stroke driven by

Auxiliary Air Compressors, No. No. of stages diameters stroke driven by

Small Auxiliary Air Compressors, No. No. of stages diameters stroke driven by

What provision is made for first charging the air receivers.

Scavenging Air Pumps, No. diameter stroke driven by

Auxiliary Engines crank shafts, diameter as per Rule No. Position

as fitted Have the auxiliary engines been constructed under special survey. Is a report sent herewith.

002465-002470-0161

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AIR RECEIVERS:—Have they been made under survey yes

State No. of report or certificate 21432

Is each receiver, which can be isolated, fitted with a disc 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

Starting
Injection Air Receivers, No. 2

Cubic capacity of each 450 cu ft

Internal diameter 6'-0 3/4"

thickness 1"

Seamless, lap welded or riveted longitudinal joint Riveted

Material Steel

Range of tensile strength 28/32 tons

Working pressure 356 lb/sq in

Injection
Starting Air Receivers, No. ✓

Total cubic capacity ✓

Internal diameter ✓

thickness ✓

Seamless, lap welded or riveted longitudinal joint ✓

Material ✓

Range of tensile strength ✓

Working pressure ✓

IS A DONKEY BOILER FITTED yes

If so, is a report now forwarded yes

Is the donkey boiler intended to be used for domestic purposes only no

PLANS. Are approved plans forwarded herewith for shafting 15.1.44

(If not, state date of approval)

Receivers 2.12.43

Separate fuel tanks ✓

Donkey boilers 2.12.43

General pumping arrangements ✓

Pumping arrangements in machinery space 25.5.44

Oil fuel burning arrangements 5.5.44

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,

Manufacturer.

Dates of Survey while building
During progress of work in shops - 1944
Apr 28 May 10.13.23.24 June 9.20.26.30 July 27 Sept 16.28 Oct 24 6.10.12.17.18.23 Nov. 16.7.8.14.19
During erection on board vessel - 1943
22.24 Dec 24.6.12.13.14.18.28.29 Jan 1.10.12.16.17.23.26.30 31 Feb 1.25.7.8.10.14.16.20.28 Mar 1.8.9.10.13.15.20.26 Apr 4.11.15.16.20.23.25.26.30 May 3.4.16.23.24 June 14.16.17 July 4.25.31 Aug 10.20.23.31
Total No. of visits 91

Dates of examination of principal parts—Cylinders ✓ Covers ✓ Pistons ✓ Rods ✓ Connecting rods ✓

Crank shaft ✓ Flywheel shaft ✓ Thrust shaft ✓ Intermediate shafts 14.6.45 Tube shaft ✓

Screw shaft 14.6.45 Propeller 3.7.45 Stern tube 16.6.45 Engine seatings ✓ Engine holding down bolts ✓

Completion of fitting sea connections 25.7.45 Completion of pumping arrangements ✓ Engines tried under working conditions ✓

Crank shaft, material ✓ Identification mark ✓ Flywheel shaft, material ✓ Identification mark ✓

Thrust shaft, material ✓ Identification mark ✓ Intermediate shafts, material Steel Identification marks ✓

Tube shaft, material ✓ Identification mark ✓ Screw shaft, material Steel Identification mark ✓

Identification marks on air receivers ✓ WP 356 lb T.D.S. 22.11.44 WP 356 lb T.D.S. 12.12.44

Is the flash point of the oil to be used over 150°F ✓

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with ✓

Description of fire extinguishing apparatus fitted ✓

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 ✓

Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c. The donkey boilers, air receivers, propeller & screw shaft have been efficiently fitted on board & the vessel has been taken to the Clyde for installation of the main engines.

The amount of Entry Fee ... £ : :
Special ... £ : :
Donkey Boiler Fee... £ : :
Travelling Expenses (if any) £ : :
When applied for 19
When received 19

Committee's Minute

Assigned

GLASGOW

8 JAN 1946

SEE ACCOMPANYING MACHINERY REPORT.

TD Oilston
Engineer Surveyor to Lloyd's Register of Shipping.



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