

REPORT ON OIL ENGINE MACHINERY.

No. 18968

Received at London Office

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Writing Report 13-10-1948 When handed in at Local Office 13-10-1948 Port of West Hartlepool

Survey held at West Hartlepool Date, First Survey 17 September 1948 Last Survey 7 September 1948 Number of Visits 115

Book. Single on the Trip Screw vessel "BRITISH VENTURE" Tons Gross 6096 Net 3328

Underland By whom built J. L. Thompson Sons Ltd Yard No. 656 When built 1948
Hartlepool By whom made Richardson, Wetherth & Co Engine No. 2775 When made 1948
Wallsend By whom made North Eastern Marine Eng Co Boiler No. 1292/1293 When made 1948
2500 Owners British Tankers Ltd Port belonging to London.
No. 534 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
Vessel is intended Ocean going.

S. & Co. Type of Engines Opposed Piston Airless Injection 2 or 4 stroke cycle 2 Single or double acting Single
No. of cylinders 6404 Diameter of cylinders 600 mm Length of stroke 1890 mm No. of cylinders 3 No. of crank 3-3 throw
Pressure 88 lb/sq. in. Is there a bearing between each crank each 3 throw
adjacent to the crank, measured from inner edge to inner edge 1890 mm
Flywheel dia. A 2300 mm Weight A 2-263 tons Means of ignition Compression Kind of fuel used 255 mm
dia. of journals as per Rule 423 mm Crank pin dia. 450 mm Crank webs 255 mm Thickness parallel to axis 200 mm
Intermediate Shafts, diameter as per Rule 337 mm Thrust Shaft, diameter at collars as per Rule 354 mm
Screw Shaft, diameter as per Rule 430 mm Is the shaft fitted with a continuous liner Yes

Thickness in way of bushes as per Rule 15.9 mm Thickness between bushes as per Rule 14.17 mm Is the after end of the liner made watertight in the
If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yes
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-

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
If so, state type Length of bearing in Stern Bush next to and supporting propeller 4'-11"

ing Engines Hand lever Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of
Thickness of cylinder liners 25 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled

conducting material. If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned
Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

to the Main Bilge Line No. and size 1- Ballast Pump 10"x12"x10" 2- Bilge Pumps 7"x8"x8"
How driven Steam
led to the bilges no If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

and size 1- 10"x12"x10" Power Driven Lubricating Oil Pumps, including spare pump, No. and size 1- 6"x5 1/2"x15"
at means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both main bilge pumps and auxiliary

and size: In machinery spaces 2- 3 1/2" 1- 6" 1- 4" In pump room

er Pump Direct Suctions to the engine room bilges, No. and size 1- 8" 1- 7" 2- 6" 2- 3 1/2" 2- 3" from Gutters
Oil Transfer Pump

tion pipes in holds and tunnel well fitted with strum-boxes Yes Are the bilge suction in the machinery spaces led from easily
s, placed above the level of the working floor, with straight tail pipes to the bilges Yes

are fitted direct on the skin of the Ship Yes Are they fitted with valves or cocks Both Are they fixed
the ship's side to be seen without lifting the platform plates Yes Are the overboard discharges above or below the deep water line Below

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
ough the bunkers How are they protected

ough the deep tanks Have they been tested as per Rule Yes
valves and pumps in connection with the machinery and all boiler mountings accessible at all times Yes

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
compartment to another Is the shaft tunnel watertight Is it fitted with a watertight door worked from

t means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

sors, No. No. of stages diameters stroke driven by
Compressors, No. 2- Tandem No. of stages Three diameters 1 1/2"-2 3/4", 1 1/2"-9 1/4" stroke 7" driven by Steam

Auxiliary Air Compressors, No. No. of stages diameters stroke driven by
provision is made for first charging the air receivers

nging Air Pumps, No. one diameter 1700 mm stroke 600 mm driven by Lever from M. Engine

of Visits 13 Auxiliary Engines crank shafts, diameter as per Rule No. Position Is a report sent herewith

The auxiliary engines been constructed under special survey. Yes

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AIR RECEIVERS:—Have they been made under survey Yes State No. of report or certificate No 2418

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes fusible plug

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. ✓ 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 110 cu ft each Internal diameter 3-6" thickness 1"

Seamless, lap welded or riveted longitudinal joint Riveted Material M. Steel Range of tensile strength 29/33 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 Yes Receivers Yes Separate fuel tanks Yes

Donkey boilers ✓ General pumping arrangements Yes Pumping arrangements in machinery space Yes

Oil fuel burning arrangements Yes

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.

Dates of Survey while building
During progress of work in shops - - 1947 Sept. 11, Oct. 4, Nov. 8, 11, 12, 20, 24, 25, 27, Dec. 15, 16, 18, 1948, Jan. 1, 8, 12, 20, 22, 23, 30, Feb. 13, 18, 23, 26, 27, March 1, 2, 3, 4, 10, 11, 16, 22, 23, 24, 25, 31, April 2, 5, 8, 9, 12, 13, 14, 15, 16, 19, 20, 21, 22, 23, 26, 27, 28, May 3, 5, 6, 10, 11, 12, 13, 14, 18, 20, 24, 25, 26, 27, 28, 31, June 1, 2, 3, 4, 8, 9, 10, 23, 24, 25, 28, 29, 30, July 1, 2, 5, 14, 15, 16, 20, 27, Aug. 3, 5, 12, 13, 16, 17, 18, 19, 20, 27, 30, Sept. 7.
During erection on board vessel - -
Total No. of visits 115

Dates of examination of principal parts—Cylinders 2-6-48 Covers ✓ Pistons 27-5-48 Rods 27-5-48 Connecting rods 27-5-48

Crank shaft 5-4-48 Flywheel shaft 5-4-48 Thrust shaft 5-4-48 Intermediate shafts 29-6-48 Tube shaft ✓

Screw shaft 28-5-48 Propeller 31-5-48 Stern tube 28-5-48 Engine seatings 12/8/48 Engine holding down bolts 12/8/48

Completion of fitting sea connections 20-5-48 Completion of pumping arrangements 7/9/48 Engines tried under working conditions 7/9/48

Crank shaft, material OH Steel Identification mark 52136 JAN Flywheel shaft, material OH Steel Identification mark 52136

Thrust shaft, material OH Steel Identification mark 52136 JAN Intermediate shafts, material OH Steel Identification marks 650

Tube shaft, material ✓ Identification mark ✓ Screw shaft, material OH Steel Identification mark 6677

Identification marks on air receivers.

<u>2418</u> HYD TEST 500 lb. WP 600 lb. 4-2-48 SN	<u>2420</u> HYD TEST 500 lb. WP 600 lb. 6-2-48 SN
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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 Steam smothering under boiler & chemical extinguishers

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 No If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.) To complete special survey the following items

outstanding. Bilge injection & Bilge direct suction test. Extended sprayers & stop wires & test

Sp. Gear to check. Bilge suction test in pump rooms & machinery & test at sea under full

This vessels machinery has been built & installed under special survey in accordance

approved plans & Rules of the Society. On completion of items above, it will, in my opinion

be eligible to have notation of +LMC (with date) C.L. Oil Engine

The whole of the above items for completion of special survey have

been examined and tested. The machinery of this vessel is eligible

in my opinion to have the notation +LMC 12-48

The amount of Entry Fee ... £

Special 181 : 16 When applied for 13-10-1948

Welded construction 12 : 6 : 9 When received 19

Donkey Boiler Fee... £

Travelling Expenses (if any) £

Committee's Minute FRI. 21 JAN 1949

Assigned +LMC 12-48 Oil Eng

200.150 lb. C.L.

Shood C. Brooker
Engineer Surveyor to Lloyd's Register of Shipping

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