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Rpt. 4.

NEWCASTLE-ON-TYNE, No. 105870

No. 116074

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 26 JAN 1949 When handed in at Local Office 26 JAN 1949 Port of London  
No. in Survey held at Bedford Date, First Survey 22 JUL 1947 Last Survey 12 JANUARY 1948  
Reg. Book 90797 on the M.V. BRITISH ENDEAVOUR  
Built at Newcastle By whom built Hawthorn Leslie & Co. Yard No. 4049. Tons { Gross 8589.18  
Engines made at Bedford By whom made J.H. Allen Sons & Co. Bedford. Engine No. R2/64244 When built 1949  
Boilers made at By whom made 2 units 75 K.W. Boiler No. When made 1949  
Registered Horse Power 4.61 Owners BRITISH TANKER CO. LTD. Port belonging to London.  
Net Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES.  
Trade for which vessel is intended OPEN SERVICE.

ENGINES, &c.—Description of Engines Two - 75kw. Elec. Gen. Engines Revs. per minute 500  
Dia. of Cylinders 10" H.P. and 15" L.P. Length of Stroke 62" No. of Cylinders Two No. of Cranks Two  
Crank shaft, dia. of journals 3 3/8" at fly end. Crank pin dia. 3 1/2" Mid. length breadth 5 1/2" Thickness parallel to axis  
3 1/4" middle & forward. Crank webs 2 3/8" shrunk Thickness around eye-hole  
Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule  
as fitted Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule  
as fitted Is the { tube } shaft fitted with a continuous liner { screw }  
Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule  
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. If so, state type. Length of Bearing in Stern Bush next to and supporting propeller  
Propeller, dia. Pitch No. of Blades Material whether Moveable Total Developed Surface sq. feet  
Feed Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work.  
Bilge Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work.  
Feed { No. and size Pumps connected to the { No. and size  
Pumps How driven Main Bilge Line How driven  
Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size  
Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected both to Main Bilge Pumps and Auxiliary  
Bilge Pumps:—In Engine and Boiler Room  
In Pump Room In Holds, &c.  
Main Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges,  
No. and size Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes.  
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.  
Are all Sea Connections fitted direct on the skin of the ship. Are they fitted with Valves or Cocks.  
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold 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.

MAIN BOILERS, &c.—(Enter for record) Total Heating Surface of Boilers.  
Which Boilers are fitted with Forced Draft. Which Boilers are fitted with Superheaters.  
No. and Description of Boilers. Working Pressure.  
IS A REPORT ON MAIN BOILERS NOW FORWARDED?  
IS A DONKEY BOILER FITTED? If so, is a report now forwarded?  
Can the donkey boiler be used for other than domestic purposes.

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers.  
(If not state date of approval)  
Superheaters. General Pumping Arrangements Oil fuel Burning Piping Arrangements

## SPARE GEAR. One set.

Has the spare gear required by the Rules been supplied.  
State the principal additional spare gear supplied.  
1 H.P. Piston Rods complete with nut & slipper  
1 L.P. " " "  
1 H.P. Piston complete with ring (left to large).  
1 H.P. Ring (left to large).  
1 L.P. Piston complete with ring.  
1 L.P. Ring.  
2 Pair Crosshead brasses. bolts & nuts.  
2 Pair Conn Rod. " "  
1 Set Governor springs.  
2 Main Bearing bolts & nuts.  
6 Coupling bolts. nuts & sp. pins.

The foregoing is a correct description.

Pledge for W.H. Allen Sons &amp; Co Ltd Bedford. Manufacturer.



Dates  
of Survey  
while  
building

During progress of  
work in shops - -

During erection on  
board vessel - - -

Total No. of visits

1947: JUL 22 NOV 4 DEC 2.5.12

1948 JAN 12

Dates of Examination of principal parts - Cylinders 5.12.47

Slides 4.11.47

Covers 5.12.47

Pistons 12.12.47

Piston Rods 12.12.47

Connecting rods 2.12.47

Crank shaft 2.12.47

Thrust shaft ✓

Intermediate shafts ✓

Tube shaft ✓

Screw shaft ✓

Propeller ✓

Stern tube ✓

Engine and boiler seatings ✓

Engines holding down bolts ✓

Completion of fitting sea connections ✓

Boilers fixed ✓

Engines tried under steam ✓

Main boiler safety valves adjusted ✓

Thickness of adjusting washers

Crank shaft material *Cast Steel*

Identification Mark

Thrust shaft material ✓

Identification Mark ✓

Intermediate shafts, material ✓

Identification Marks ✓

Tube shaft, material ✓

Identification Mark ✓

Screw shaft, material ✓

Identification Mark ✓

Steam Pipes, material ✓

Test pressure ✓

Date of Test ✓

Is an installation fitted for burning oil fuel ✓

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 ✓

If so, have the requirements of the Rules been complied with ✓

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo ✓

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 steam generating sets have been constructed under Special Survey in accordance with the requirements of the Rules and approved; the steel was made at works approved by the Committee; the workmanship is good, and on completion the generating sets were tested upon the bench under full and overload conditions with satisfactory results*

*The sets have been despatched to Newcastle for fitting on board the vessel.*

SURVEY OF MACHINERY.  
NEWCASTLE-ON-TYNE.

FIRST SURVEY 17/11/47

LAST SURVEY 27/

No. OF VISITS 107

*The steam generating sets have been satisfactorily installed on board, examined under working conditions & found satisfactory*

*J.A. Orle Newcastle-on-Tyne  
27th January 1949*

SURVEYOR TO LLOYD'S REGISTER.  
NEWCASTLE-ON-TYNE.

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

The amount of Entry Fee	£ 8 : 0	When applied for,
Special	£ :	26 JAN 1948
Donkey Boiler Fee	£ :	When received,
Travelling Expenses (if any)	£ 1 : 5 : 5	19

FRI, 11 MAR 1949

Date

Committee's Minute *In unit see S.S. Rpt*

*RUBoomber*

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation