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NEWCASTLE-ON-TYNE, No. 105870

No. 116074

Rpt. 4.

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

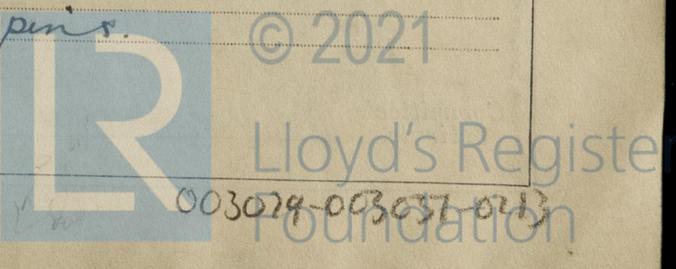
Date of writing Report 26 JAN 1948 When handed in at Local Office 26 JAN 1948 Port of London  
 No. in Survey held at Bedford Date, First Survey 22 July 1947 Last Survey 12 JANUARY 1948  
 Reg. Book 90797 on the M.V. BRITISH ENDEAVOUR (Number of Visits 518) Tons {Gross 8589.18  
 Net 4953.70  
 Built at Newcastle By whom built Hawthorn Leslie & Co Yard No. 4049 When built 1949  
 Engines made at Bedford By whom made J.H. Allen Sons Co. Bedford Engine No. R2/64244 When made 1949  
 Boilers made at Bedford By whom made 2 units 75 K.W. Boiler No. ✓ When made ✓  
 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. and 15" L.P. Length of Stroke 6 1/2" No. of Cylinders Two No. of Cranks Two  
 Crank shaft, dia. of journals 3 7/8" at fly end. Crank pin dia. 3 1/2" Mid. length breadth 5 1/2" Thickness parallel to axis shrunk  
3 1/4" middle of end. Crank webs 2 3/8" Thickness around eye-hole shrunk  
 Intermediate Shafts, diameter as per Rule ✓ Thrust shaft, diameter at collars as per Rule ✓  
 Tube Shafts, diameter as fitted ✓ Screw Shaft, diameter as fitted ✓ Is the {tube / screw} shaft fitted with a continuous liner {✓ / ✓}  
 Bronze Liners, thickness in way of bushes as per Rule ✓ Thickness between bushes 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 Pumps {No. and size ✓ Pumps connected to the Main Bilge Line {No. and size ✓ How driven ✓ 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.—(Letter 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 ✓  
 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 nuts & 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 & Co Ltd Bedford. Manufacturer.



1947: JULY 22 NOV 4 DEC 2.5.12 1948 JAN 12

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits *Six (in shops)*

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 ✓

Completion of pumping arrangements ✓

Main boiler safety valves adjusted ✓ Thickness of adjusting washers ✓

Crank shaft material *Cast Steel* Identification Mark *2-789K, L, R* 2.12.47 (RW) 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 ✓

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 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 generator 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 27/1/49  
No. OF VISITS 107

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

*J.A. Orde Newcastle-on-Tyne*  
*27<sup>th</sup> 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, <b>26 JAN 1949</b>
Special	... £ :	
Donkey Boiler Fee	... £ :	} When received, 19
Travelling Expenses (if any)	£ 1 : 5 : 5	

**FRI, 11 MAR 1949**

Date

Committee's Minute *In units see S.S. R/R*

*R.W. Boomber*

Engineer Surveyor to Lloyd's Register of Shipping.



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