

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office 22 MAR 1948 Port of NEWCASTLE-ON-TYNE
 No. in Survey held at Wallsend & Sunderland Date, First Survey 6th JUNE, 1946 Last Survey 19th MARCH, 1948
 Reg. Book MATADIAN.
 on the MATADIAN.
 Built at SUNDERLAND By whom built Sir J. Laing & Co. Ltd Yard No. 776. Tons { Gross
 Engines made at WALLSEND By whom made N.E. MAR. ENG. CO. (1938) LTD Engine No. 3140 When built 1948-3 mo.
 Boilers made at DITTO By whom made DITTO Boiler No. 3140 When made 1948
 Registered Horse Power Owners UNITED AFRICA CO. LTD Port belonging to LONDON.
 Nom. Horse Power as per Rule 625. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES
 Trade for which vessel is intended Ocean going

ENGINES, &c.—Description of Engines Triple Expn Re-heat
 Dia. of Cylinders 23.65.38" Length of Stroke 45" No. of Cylinders 3 Revs. per minute 85
 Crank shaft, dia. of journals as per Rule 13.11" Crank pin dia. 13 1/2" No. of Cranks 3
 Intermediate Shafts, diameter as per Rule 12.48" Thrust shaft, diameter at collars as per Rule 13.1
 Tube Shafts, diameter as fitted 12 3/4" as fitted 13 1/2"
 Screw Shaft, diameter as per Rule 13.88" as fitted 14 1/4" Is the shaft fitted with a continuous liner Yes
 Bronze Liners, thickness in way of bushes as per Rule 23.2/32" as fitted 3/4" Thickness between bushes as per Rule 17.35/32" as fitted 5/8" 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. 2 one piece.
 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 a close fit.
 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
 Propeller, dia. 16'-9 1/2" Pitch 14'-3" No. of Blades 4 Material M. BRZE whether Moveable No Total Developed Surface 93.8 sq. feet
 Feed Pumps worked from the Main Engines, No. NIL Diameter 4" Stroke 24" Can one be overhauled while the other is at work YES.
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 24" Can one be overhauled while the other is at work YES.
 Pumps connected to the Main Bilge Line { No. and size BALL P. 9" 11" x 10"; G.S.P. 7.5" x 8"; 82 g H" x 24"
 How driven Steam 200 Tons Steam by M. ENG.
 Ballast Pumps, No. and size one of 9" 11" x 10" Lubricating Oil Pumps, including Spare Pump, No. and size NIL.
 Are two independent means arranged for circulating water through the Oil Cooler
 Bilge Pumps:—In Engine and Boiler Room 5 g 3 1/2"; 2 g 2" in of Gutters in B.Rm.; 1 g 2 1/2" in Cofferdam & 2 g 2 1/2" to Dry Tank in B.Rm.
 In Pump Room In Holds, &c. 2 g 2 1/2" to No. 2 Hold.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 g 9" on Port Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges, No. and size 1 g 5" on Starboard.
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes YES.
 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 YES.
 Are all Sea Connections fitted direct on the skin of the ship YES. Are they fitted with Valves or Cocks BOTH
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates YES Are the Overboard Discharges above or below the deep water line BOTH
 Are they each fitted 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.
 What Pipes pass through the bunkers. CARL NIL How are they protected
 What pipes pass through the deep tanks NIL Have they been tested as per Rule YES.
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times YES.
 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 YES Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 8763 SAFT. SUPERH³ SURF. 1725 SQ. FT.
 Which Boilers are fitted with Forced Draft ALL THREE. Which Boilers are fitted with Superheaters ALL THREE
 No. and Description of Boilers 3 SINGLE ENDED Working Pressure 220 LBS.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? YES.
 IS A DONKEY BOILER FITTED? No 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 15-7-47 Main Boilers 17-10-46 Auxiliary Boilers Donkey Boilers
 (If not state date of approval)

Superheaters SH. 1004 10-12-46. General Pumping Arrangements Pumping Arrgt. in machy space 21-7-47. Oil fuel Burning Piping Arrangements 3-4-47
 (Combustion Chr. Type) SPARE GEAR.

Has the spare gear required by the Rules been supplied YES.
 State the principal additional spare gear supplied 2 Roller Bearings for HP & MP Poppet Valves
 2 Spindles & Bushes for Poppet Valves, also for Poppet Valve Covers, etc.

Dates of Survey while building	During progress of work in shops - -	1946 JUNE 6, 19, 21, JULY 1, 4 (1947) JAN 23, 28, 31, FEB 11, 14, 19, 21, 25, 26 MAR 27, 10, 26, 31, APR 3, 8, 14, 17, 22, 23, 25, 29 30 MAY 1, 2, 5, 6, 7, 13, 14, 15, 16, 20, 23, 27, 30 JUNE 2, 3, 4, 6, 9, 10, 11, 16, 25, 27, 30, JULY 1, 2, 3, 4, 7, 8, 16, 18, 29, 31, AUG 6, 7, 8, 12, 13, 14, 18, 22, SEPT. 4, 5, 12, 16, 18, 19, 22, 23, 26, OCT. 1, 3, 4, 20, 21, 27, 31, NOV. 3, 4, 5, 6, 12, 14, 17, 18, 19, 21, 24, 25, 26, 27, DEC 1, (1948) FEB 25, 26, 27, MAR 15, 19
	During erection on board vessel - - -	
Total No. of visits		108

The Machinery of this Vessel has been constructed and installed under special survey in accordance with the approved plans and the Society's Rules, and the materials and workmanship are good.

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

Date _____

FITTED FOR OIL FUEL, 3.48 FLASH POINT ABOVE 160°F.

F.D. C.L.

3 S.B. 22016 Spt



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Foundation