

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office 5 JULY 1945 Port of HULL  
 No. in Survey held at THORNE Date, First Survey 9. 2. 45 Last Survey 7. 6. 1945  
 Reg. Book (Number of Visits 10)  
 on the VIC 94 A/MS 1072 Tons { Gross 147  
 Net 52  
 Built at THORNE By whom built RICHARD DUNSTON & CO Yard No. 576 When built 1945  
 Engines made at HEBBURN By whom made WHITE MARINE ENG. CO. Engine No. 904 When made 1944  
 Boilers made at STOCKTON-ON-TEES By whom made STOCKTON C. & T. RILEY Boiler No. 6854 When made ..  
 BOILER CO. LTD.  
 Registered Horse Power 19 Owners. MINISTRY OF WAR TRANSPORT Port belonging to -  
 Nom. Horse Power as per Rule - 24 Is Refrigerating Machinery fitted for cargo purposes ☒ Is Electric Light fitted ☒  
 Trade for which vessel is intended COASTING.

ENGINES, &c.—Description of Engines COMPOUND RECIPROCATING Revs. per minute 150  
 Dia. of Cylinders 10 1/2" - 22" Length of Stroke 14" No. of Cylinders 2 No. of Cranks 2  
 Crank shaft, dia. of journals as per Rule 4.27" Crank pin dia. 4 3/8" Mid. length breadth ☒ Thickness parallel to axis 2 7/8"  
 as fitted 4 3/8" Crank webs shrunk Mid. length thickness ☒ Thickness around eye-hole 2"  
 Intermediate Shafts, diameter as per Rule 3.92" FOR SMOOTH WATER Thrust shaft, diameter at collars as per Rule  
 as fitted ☒ as fitted  
 Tube Shafts, diameter as per Rule ☒ Screw Shaft, diameter as per Rule 4.59 FOR SMOOTH WATER  
 as fitted ☒ as fitted 4 7/8" Is the tube screw shaft fitted with a continuous liner { No ☒  
 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 ☒ as fitted ☒ 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 YES ☒ If so, state type Length of Bearing in Stern Bush next to and supporting propeller 20"  
 Propeller, dia. 66" Pitch 86" No. of Blades 4 Material C.I. whether Moveable NO Total Developed Surface 11.6 sq. feet  
 Feed Pumps worked from the Main Engines, No. 1 Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work  
 Bilge Pumps worked from the Main Engines, No. 1 Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work  
 Feed Pumps { No. and size 1-2 1/8" 6" AND 1-PEARNS 800G.P.M. Pumps connected to the { No. and size 1-2 1/8" x 6" : 1-5 1/4" x 4 3/4" x 6"  
 { How driven M.E. : IND. STEAM Main Bilge Line { How driven M.E. : IND. STEAM  
 Ballast Pumps, No. and size 1-5 1/4" x 4 3/4" x 6" AS ABOVE Lubricating Oil Pumps, including Spare Pump, No. and size NONE  
 Are two independent means arranged for circulating water through the Oil Cooler ☒ Suctions, connected to both Main Bilge Pumps and Auxiliary  
 Bilge Pumps:—In Engine and Boiler Room 1-2" AND 1-1 1/2" ☒  
 In Pump Room ☒ In Holds, &c. 1-2" ☒

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-2" Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 No. and size 1-2" 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 ON ROBUST STEEL BOXES 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 YES ☒  
 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 NONE How are they protected ☒  
 What pipes pass through the deep tanks NONE 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 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 NONE Is it fitted with a watertight door ☒ worked from ☒

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 525 sq ft  
 Which Boilers are fitted with Forced Draft NONE Which Boilers are fitted with Superheaters NONE  
 No. and Description of Boilers 1 VERTICAL BOILER Working Pressure 120 LBS/SQ IN  
 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 domestic purposes only ☒

PLANS. Are approved plans forwarded herewith for Shafting 28-10-41 Main Boilers 30-11-43 Auxiliary Boilers ☒ Donkey Boilers ☒  
 (If not state date of approval)  
 Superheaters ☒ General Pumping Arrangements 14-12-43 Oil fuel Burning Piping Arrangements ☒

## SPARE GEAR.

Has the spare gear required by the Rules been supplied  
 State the principal additional spare gear supplied ONLY SPARE PROPELLOR SUPPLIED

The foregoing is a correct description.

Manufacturer.



During progress of work in shops - - - See Merc. Report.

Dates of Survey while building { During erection on board vessel - - - 1945 Feb. 9. Mar. 13. 19. 21. 26. 28. Apr. 5. 11. 17. 23. 25. May. 24. 29. 31. June 4. 7.

Total No. of visits. 16.

Dates of Examination of principal parts—Cylinders 10-1-45 Slides 13-2-45 Covers 16-2-45

Pistons 13-2-45 Piston Rods 16-2-45 Connecting rods 16-2-45

Crank shaft 26-3-45 Thrust shaft 16-2-45 Intermediate shafts ✓

Tube shaft ✓ Screw shaft 13-3-45 Propeller 13-3-45

Stern tube 13-3-45 Engine and boiler seatings 5-4-45 : 11-4-45 Engines holding down bolts 23-4-45

Completion of fitting sea connections 13-3-45 31-5-45

Completion of pumping arrangements 31-5-45 Boilers fixed Engines tried under steam 4-5-45

Main boiler safety valves adjusted 31-5-45 Thickness of adjusting washers P & S 9/32" LR 13421

Crank shaft material F.I. STEEL Identification Mark 13421 LR See attached cut. Thrust shaft material F.I. STEEL Identification Mark

Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark

Screw shaft, material F.I. STEEL Identification Mark Steam Pipes, material COPPER Test pressure 450 lbs/0" Date of Test 29-5-45

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. YES ✓ If so, state name of vessel. VIC 93

General Remarks (State quality of workmanship, opinions as to class, &c. Workmanship good.

The above machinery installed on "VIC 94"

Machinery tried under working conditions & found satisfactory

Eligible in our opinion to be classed L.M.C. (with date) O.G. C. 2 cy. 10 1/2"

22" - 14" N.H.P. 24.

1. Vertical boiler 120 lbs G.S. 25 sq' H.S. 525 sq'

The amount of Entry Fee	£	:	:	When applied for,
Special	£	6	16	19
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	19

Committee's Minute FRI. 20 JUL 1945

Assigned LMC 6.45  
O.G.

Geo. A. Laing and J. Dobbie  
Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation