

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 10 SEP 1929

Date of writing Report 5.9.1929 When handed in at Local Office 5.9.1929 Port of MIDDLESBROUGH  
 No. in Survey held at MIDDLESBROUGH Date, First Survey 7 February Last Survey 4.9.1929  
 Reg. Book. 4163 Sup. on the sc. "OUSEBRIDGE" (Number of Visits 5.2)  
 Built at Hawerton Hill By whom built Furness S.B. Co. Yard No. 146 Tons { Gross 5601  
 Engines made at Middlesbrough By whom made Richardson, Wetgait & Co. Engine No. 2580 when made 1929 Net 3533  
 Boilers made at do. By whom made do. Boiler No. 2580 when made 1929  
 Registered Horse Power 477.3 Owners North of England S.S. Co. Ltd. Port belonging to do.  
 Nom. Horse Power as per Rule 477.3 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Yes  
 Trade for which Vessel is intended do.

**ENGINES, &c.**—Description of Engines Triple Expansion Revs. per minute 67  
 Dia. of Cylinders 27" 44" 73" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3  
 Crank shaft, dia. of journals as per Rule 13.86 Crank pin dia. 14 1/2" Crank webs Mid. length breadth 22" Thickness parallel to axis 9"  
 as fitted 14 1/2" Mid. length thickness 9" shrunken Thickness around eye-hole 6 1/4"  
 Intermediate Shafts, diameter as per Rule 13.2 Thrust shaft, diameter at collars as per Rule 13.86  
 as fitted 13 1/2" as fitted 14 1/2"  
 Tube Shafts, diameter as per Rule do. Screw Shaft, diameter as per Rule 14.7 Is the rod screw shaft fitted with a continuous liner { Yes }  
 as fitted do. as fitted 15 1/2" as fitted 9 1/16" Is the after end of the liner made watertight in the  
 propeller boss Yes Thickness between bushes as per Rule 5/8" as fitted 5/8" If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yes  
 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 Yes  
 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  
 end of the tube shaft no Length of Bearing in Stern Bush next to and supporting propeller 5-2 1/4"  
 Propeller, dia. 18'-0" Pitch 17'-6" No. of Blades 4 Material C. Iron whether Moveable no Total Developed Surface 101 sq. feet  
 Feed Pumps worked from the Main Engines, No. 2 Diameter 3 1/2" Stroke 27" Can one be overhauled while the other is at work Yes  
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 27" Can one be overhauled while the other is at work Yes  
 Feed Pumps { No. and size 2-9 1/2" x 7 1/2" C.M.E.W. 51-7 1/2" x 8" Duplex G.S. Pumps connected to the { No. and size 1-9" x 10" x 10" Duplex.  
 How driven Steam Main Bilge Line How driven Steam  
 Ballast Pumps, No. and size 1-9" x 10" x 10" Lubricating Oil Pumps, including Spare Pump, No. and size do.  
 Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary  
 Bilge Pumps;—In Engine and Boiler Room 4-3"; 1-3" Tunnel well & 2-2 1/2" 6 Dry Tank.  
 In Holds, &c. No 1: 2-3"; No 2: 2-3 1/2"; No 3: 2-8"; No 4: 1-3"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-7" Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 No. and size 1-5" 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 above  
 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 Forward Suctions How are they protected Wood ceiling  
 What pipes pass through the deep tanks do. 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 Yes Is it fitted with a watertight door Yes worked from E.R. level

**MAIN BOILERS, &c.**—(Letter for record S) Total Heating Surface of Boilers 6728 sq. ft.  
 Is Forced Draft fitted Yes No. and Description of Boilers 3 S.B. Working Pressure 180 lbs  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes  
 IS A DONKEY BOILER FITTED? No. If so, is a report now forwarded? Yes  
 PLANS. Are approved plans forwarded herewith for Shafting Yes Main Boilers 11. 1. 29 Auxiliary Boilers do. Donkey Boilers do.  
 Superheaters do. General Pumping Arrangements 17-1-29 Oil fuel Burning Piping Arrangements do.  
 SPARE GEAR. State the articles supplied:— As per Rule + 1 propeller; 1 propeller shaft.

The foregoing is a correct description.  
FOR RICHARDSON, WETGAIT & CO. LIMITED

*Spencer*  
MANAGING DIRECTOR  
Manufacturer.



W 66-0050

1929 Feb. 7, 13, 21, 28 Mar. 4, 7, 9, 10, 22, 25 Apr. 3, 4, 15, 22, 30 May, 1, 6, 8, 9, 11  
 During progress of work in shops - - 16, 22, 23, 27, 28 June 3, 6, 8, 11, 13, 14, 17, 18, 25, 26 July 9, 11, 13, 18, 22,  
 During erection on board vessel - - July 16, 19, 23, 29, 30 Aug. 8, 13, 15, 17, 19, 20, 22, 29, Sept 2, 4  
 Total No. of visits 55.

Date of writing

No. in Reg. Book

653 Sup.

Master

Engines made

Boilers made

Nominal Horse

MULTITU

Manufacturers

Total Heating

No. and Desc

Tested by Lloyd

Area of Fire

Area of each

In case of don

Smallest disto

Smallest disto

Largest inter

Thickness

long, seams T

Percentage of

Percentage of

Thickness of

Material

Length of pl

Dimensions of

End plates in

How are stay

Tube plates

Mean pitch of

Girders to c

at centre 7

in each

Tensile stren

Pitch of stay

Working pre

Thickness

Pitch of stay

Working Pr

Diameter { At

Working pre

The amount of Entry Fee ... £ 5-0-0  
 Special ... £ 96-11-0  
 Donkey Boiler Fee ... £ : :  
 Travelling Expenses (if any) £ : :  
 When applied for, 9 Sept 1929  
 When received, 20.9.29

OSM

P. J. Man

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 13 SEP 1929

Assigned

thmc 9.29 J.D. CL

CERTIFICATE WRITTEN



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The Surveyors are requested not to write on or below the space for Committee's Minute.