

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

MIDDLESBROUGH.

of writing Report 11. 11. 27 When handed in at Local Office 11. 11. 27 Port of **STOCKTON.**
in Survey held at **STOCKTON.** Date, First Survey 27. 5. 27 Last Survey 9. 11. 1927.
Book. (Number of Visits 40.)
7th of the **S.S. "GLOCLIFFE"** Tons } Gross 4600
at **STOCKTON.** By whom built **Craig, Taylor & Co.** Yard No. 222. Net 2910
ines made at .d.o. By whom made **Blair & Co.** Engine No. 1972 when made 1927
ers made at .d.o. By whom made .d.o. Boiler No. 1972 when made 1927.
istered Horse Power Owners **The Globe Shipping Co Ltd.** Port belonging to **CARDIFF**
a. Horse Power as per Rule 414. Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Ye.
de for which Vessel is intended **River Plate.**

GINES, &c.—Description of Engines **Triple Expansion** Revs. per minute 67.
No. of Cylinders 25 1/2. 42. 70. Length of Stroke 48. No. of Cylinders 3. No. of Cranks 3.
Crank shaft, dia. of journals as per Rule 13.36. Crank pin dia. 14 3/4. Crank webs Mid. length breadth 2.0. Thickness parallel to axis 9 1/2.
as fitted 14 1/4. Mid. length thickness 9 1/2. Thickness around eye-hole 6 3/4.
Intermediate Shafts, diameter as per Rule 12.73. Thrust shaft, diameter at collars as per Rule 13.36.
as fitted 13 3/4. as fitted 14 3/4.
be Shafts, diameter as per Rule 14.18. Is the shaft fitted with a continuous liner Ye.
as fitted 15 3/4. Is the after end of the liner made watertight in the
bronze Liners, thickness in way of bushes as per Rule 23.1. Thickness between bushes as per Rule 35.1.
as fitted 23 1/2. 3 1/4. as fitted 9 1/6. Is the after end of the liner made watertight in the
peller boss Ye. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Ye.
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 Ye.
two liners are fitted, is the shaft lapped or protected between the liners Ye. Is an approved Oil Gland or other appliance fitted at the after
of the tube shaft No. Length of Bearing in Stern Bush next to and supporting propeller 6'-1".
opeller, dia. 17'-6". Pitch 17'-6". No. of Blades 4. Material C.I. whether Moveable No. Total Developed Surface 100 sq. feet
ed Pumps worked from the Main Engines, No. 2. Diameter 3 1/2. Stroke 34. Can one be overhauled while the other is at work Ye.
lge Pumps worked from the Main Engines, No. 2. Diameter 5. Stroke 34. Can one be overhauled while the other is at work Ye.
eed { No. and size 2 Lami 7" x 9 1/2" x 21". Pumps connected to the { No. and size 1 - Lami Duplex 10" x 11" x 10".
mps { How driven 1 Lami Duplex 7" x 5" x 8". Main Bilge Line { How driven (Ballast Pump)
ilast Pumps, No. and size 1 - 10" x 11" x 10" Lami Duplex Lubricating Oil Pumps, including Spare Pump, No. and size Ye.
e two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary
lge Pumps;—In Engine and Boiler Room 3-3" in Engine Room; 1-3" Tunnel well.
Holds, &c. No 1: 2-3"; No 2: 2-3 1/2"; No 3: 2-3"; No 4: 2-3"; No 4 Well: 1-3".

ain Water Circulating Pump Direct Bilge Suctions, No. and size 1-7". Independent Power Pump Direct Suctions to the Engine Room Bilges,
n. and size 1-4 1/2". Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Ye.
e 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 Ye.
e all Sea Connections fitted direct on the skin of the ship Ye. Are they fitted with Valves or Cocks both.
e they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Ye. Are the Overboard Discharges above or below the deep water line Above.
e they each fitted with a Discharge Valve always accessible on the plating of the vessel Ye. Are the Blow Off Cocks fitted with a spigot and brass covering plate Ye.
hat Pipes pass through the bunkers Forward Hold Bilge Suctions. How are they protected Wood casings.
hat pipes pass through the deep tanks Have they been tested as per Rule Ye.
e all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Ye.
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
partment to another Ye. Is the Shaft Tunnel watertight Ye. Is it fitted with a watertight door Ye. worked from 8.12 top platform

AIN BOILERS, &c. — (Letter for record S.) Total Heating Surface of Boilers 7080 sq. ft.
s Forced Draft fitted No. and Description of Boilers 3 S.E. Marine Working Pressure 180 lbs.
S A REPORT ON MAIN BOILERS NOW FORWARDED? Ye.
S A DONKEY BOILER FITTED? none. If so, is a report now forwarded? Ye.
PLANS. Are approved plans forwarded herewith for Shafting Ye. Main Boilers Ye. Auxiliary Boilers Ye. Donkey Boilers Ye.
uperheaters. General Pumping Arrangements Ye. Oil fuel Burning Piping Arrangements Ye.

SPARE GEAR. State the articles supplied:— As per Rules + 1 tail shaft; 1 propeller; 1 main check valve;
1 donkey check valve; 12 link ring bolts & nuts; 2 eccentric bolts & nuts; 1 set air pump valve;
1 set ballast pump valve; 1 set bucket & piston rings for G.S. pump; 1 suction & discharge valve and
seals for G.S. pump; 1 set H.P. piston rings & springs; 1 set rings and springs for United States
Packing for H.P. & M.P. piston rods and H.P. valve spindle; quantity of gale tubes, condense
tubes, ferrules, gland & cover studs & firebars.

The foregoing is a correct description,

For BLAIR & CO. (1926) LIMITED,

N. P. Hamilton

MANAGING DIRECTOR

Manufacturer.



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Lloyd's Register
Foundation

W1159-0062

1927.
 May 27.31. Jun 3.10.14.21.23.24.29. Jul 1.4.6.13.14.20.22.24. Aug 3.9.11.12.23. Sep 2.5.12.16
 20.22.27.30. Oct. 3.5.10.14.17.19.21.31. Nov 8.9.
 Dates of Survey while building
 During progress of work in shops --
 During erection on board vessel --
 Total No. of visits 40

Dates of Examination of principal parts—Cylinders 12. 9. 27 Slides 22. 9. 27 Covers 12. 9. 27
 Pistons 5. 9. 27 Piston Rods 22. 9. 27 Connecting rods 22. 9. 27
 Crank shaft 20. 9. 27 Thrust shaft 20. 9. 27 Intermediate shafts 12. 9. 27
 Tube shaft ✓ Screw shaft 20. 9. 27 Propeller 20. 9. 27
 Stern tube 12. 9. 27 Engine and boiler seatings 20. 9. 27 Engines holding down bolts 19. 10. 27
 Completion of fitting sea connections 12. 9. 27
 Completion of pumping arrangements 24. 10. 27 Boilers fixed 14. 10. 27 Engines tried under steam 9. 11. 27
 Main boiler safety valves adjusted 25. 10. 27 Thickness of adjusting washers Port + Centre all $\frac{5}{16}$ ". Stan. P. $\frac{5}{16}$ " $3 \frac{11}{32}$ "
 Crank shaft material Steel Identification Mark LLOYDS No 7775 20.9.27 P.T.B. Thrust shaft material Steel Identification Mark LLOYDS No 7775 20.9.27 P.T.B.
 Intermediate shafts, material Steel Identification Marks LLOYDS No 7775 12.9.27 P.T.B. Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Iron Identification Mark LLOYDS No 7440 20.9.27 P.T.B. Steam Pipes, material Steel ✓ Test pressure 540 lbs. Date of Test 31. 8. 27.
 Is an installation fitted for burning oil fuel No. Is the flash point of the oil to be used over 150°F. ✓
 Have the requirements of the Rules for carrying and burning oil fuel been complied with ✓
 Is this machinery duplicate of a previous case Main engines No. If so, state name of vessel S/S Southborough (Lab Reg 12108).

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

The materials and workmanship are good.
 This machinery has been built under special survey in accordance with the Rules and Approved plans, securely fitted aboard and tested with satisfactory results under steam and is, in my opinion, suitable for classification with record + L.M.C. 11.27.

It is submitted that
 this vessel is eligible for
 THE RECORD. + LMC 11. 27. CL.

CERTIFICATE WRITTEN

16/11/27
 P. I. Man
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 5-0-0 When applied for,
 Special ... £ 87-11-0 11. 11. 19. 27
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 14. 11. 19. 27

Committee's Minute

FRI. 18 NOV 1927

Assigned

+ L.M.C. 11. 27
 CL.



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