

Rpt. 4.

REPORT ON MACHINERY

No. 67623
FRI. JUN. 11. 1915

Received at London Office

Date of writing Report 8th June 1915 When handed in at Local Office 10th June 1915 Port of NEWCASTLE-ON-TYNE.No. in Survey held at Newcastle Date, First Survey Oct. 15. 1913 Last Survey June 3. 1915
Reg. Book. 499 on the Machinery of the T.S. Gleniffer Number of Visits 61Master J. McFegor Built at Newcastle By whom built Hawthorn Leslie & Co. Tons { Gross 9428
Net 6021
When built 1914

Engines made at Newcastle By whom made Wallend Shipway & Eng. Co. When made 1915

Boilers made at " By whom made " when made 1915

Registered Horse Power Owners Mr. Gregor Gow & Co. Port belonging to Glasgow

Nom. Horse Power as per Section 28 988 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines *Twin triple* No. of Cylinders *6* No. of Cranks *6*
 Dia. of Cylinders *24" 40 1/2" 68"* Length of Stroke *48"* Revs. per minute *79* Dia. of Screw shaft *14 1/8"* Material of *steel*
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube *Yes* Is the after end of the liner made water tight
 in the propeller boss *Yes* If the liner is in more than one length are the joints burned *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* Length of stern bush *5'-2"*
 Dia. of Tunnel shaft *12.89"* Dia. of Crank shaft journals *13.5"* Dia. of Crank pin *14"* Size of Crank webs *22" x 9 1/4"* Dia. of thrust shaft under
 collars *14"* Dia. of screw *17'-0"* Pitch of Screw *17'-9"* No. of Blades *3* State whether moveable *Yes* Total surface *875"*
 No. of Feed pumps *2* Diameter of ditto *4 1/2"* Stroke *24"* Can one be overhauled while the other is at work *Yes*
 No. of Bilge pumps *2* Diameter of ditto *5"* Stroke *24"* Can one be overhauled while the other is at work *Yes*
 No. of Donkey Engines *6* Sizes of Pumps *12" x 12" x 12, 6" x 6" x 6, 4" x 4" x 5* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *5' of 3 1/2"* In Holds, &c. *2' of 3 1/2"* in each hold &
one of 3" in tunnel well.
 No. of Bilge Injections *2* sizes *9 1/2"* Connected to condenser, or to circulating pump *pumps* Is a separate Donkey Suction fitted in Engine room & size *Yes 4 1/2"*
 Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine room always accessible *Yes* Are the sluices on Engine room bulkheads always accessible *none*
 Are all connections with the sea direct on the skin of the ship *Yes* Are they 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 Discharge Pipes 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 are carried through the bunkers *none* How are they protected *Yes*
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *Yes*
 Dates of examination of completion of fitting of Sea Connections *26/5/15* of Stern Tube *26/5/15* Screw shaft and Propeller *26/5/15*
 Is the Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *Top platform*

BOILERS, &c.—(Letter for record *Yes*) Manufacturers of Steel *J. Spencer & Sons*
 Total Heating Surface of Boilers *14775* Is Forced Draft fitted *Yes* No. and Description of Boilers *5 Single-ended*
 Working Pressure *200 lbs* Tested by hydraulic pressure to *400 lbs* Date of test *22/5/14* No. of Certificate *8658*
 Can each boiler be worked separately *Yes* Area of fire grate in each boiler *76 9'* No. and Description of Safety Valves to
 each boiler *2 Direct spring* Area of each valve *11.04* Pressure to which they are adjusted *205 lbs* Are they fitted with easing gear *Yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *1'-9"* Mean dia. of boilers *16'-1 1/2"* Length *11'-9"* Material of shell plates *steel*
 Thickness *1 9/16"* Range of tensile strength *29 1/2-33 tons* Are the shell plates welded or flanged *no* Descrip. of riveting: cir. seams *d. r. lap*
 long. seams *T. r. d. butt* Diameter of rivet holes in long. seams *1 9/16"* Pitch of rivets *10 1/2"* Lap of plates or width of butt straps *23"*
 Per centages of strength of longitudinal joint *87* Working pressure of shell by rules *234 lbs* Size of manhole in shell *16" x 12"*
 Size of compensating ring *flanged* No. and Description of Furnaces in each boiler *4 Morion* Material *steel* Outside diameter *45"*
 Length of plain part *top 9' bottom 9'* Thickness of plates *top 5/8" bottom 5/8"* Description of longitudinal joint *welded* No. of strengthening rings *1*
 Working pressure of furnace by the rules *223 lbs* Combustion chamber plates: Material *steel* Thickness: Sides *5/8"* Back *2 1/2"* Top *5/8"* Bottom *1 1/2"*
 Pitch of stays to ditto: Sides *9" x 7 1/8"* Back *8 1/2" x 8 1/4"* Top *9" x 7 1/8"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *205 lbs*
 Material of stays *steel* Diameter at smallest part *2.03* Area supported by each stay *70* Working pressure by rules *255 lbs* End plates in steam space:
 Material *steel* Thickness *1 1/4"* Pitch of stays *20" x 16"* How are stays secured *d. n.* Working pressure by rules *213 lbs* Material of stays *steel*
 Diameter at smallest part *7.24* Area supported by each stay *320* Working pressure by rules *235 lbs* Material of Front plates at bottom *steel*
 Thickness *1"* Material of Lower back plate *steel* Thickness *3 1/2"* Greatest pitch of stays *15 1/2" x 8 1/2"* Working pressure of plate by rules *209 lbs*
 Diameter of tubes *2 1/2"* Pitch of tubes *3 3/4" x 3 5/8"* Material of tube plates *steel* Thickness: Front *1 1/4" x 1"* Back *2 1/2" x 3 1/4"* Mean pitch of stays *7 3/8"*
 Pitch across wide water spaces *13 1/4"* Working pressures by rules *233 lbs* Girders to Chamber tops: Material *steel* Depth and
 thickness of girder at centre *9" x 1 1/2"* Length as per rule *30 5/16"* Distance apart *9"* Number and pitch of stays in each *3 of 7 1/8"*
 Working pressure by rules *203 lbs* Superheater or Steam chest; how connected to boiler *none* Can the superheater be shut off and the boiler worked
 separately *Yes* Diameter *Yes* Length *Yes* Thickness of shell plates *Yes* Material *Yes* Description of longitudinal joint *Yes* Diam. of rivet
 holes *Yes* Pitch of rivets *Yes* Working pressure of shell by rules *Yes* Diameter of flue *Yes* Material of flue plates *Yes* Thickness *Yes*
 If stiffened with rings *Yes* Distance between rings *Yes* Working pressure by rules *Yes* End plates: Thickness *Yes* How stayed *Yes*
 Working pressure of end plates *Yes* Area of safety valves to superheater *Yes* Are they fitted with easing gear *Yes*

If not, state whether, and when, one will be sent

In 1913, T.

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two top end & 2 bottom end bolts, 2 main bearing bolts
2 sets of coupling bolts, 1 set of feed & bilge pump valves
2 sets of piston springs, a quantity of assorted bolts nuts
& iron, propeller shaft, 1 propeller blade, bottom end
air pump bucket & valve, 1 impeller for each circulating
pump & minor details.

The foregoing is a correct description,

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

Manufacturer.

DIRECTOR

Dates of Survey while building { During progress of work in shops -- Oct. 15. 27. Nov. 17. Dec. 18. Jan. 22. 26. Feb. 25. Mar. 5. 6. 11. 12. 13. 20. Apr. 23. 24. 25. May 1. 2. 12. 21. 22. 25. Jun. 12
During erection on board vessel --- 9. 17. Mar. 1. 4. 11. Apr. 1. 6. 14. May 5. 25. 26. 27. Jun. 3.
Total No. of visits 61.

Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 20/3/15 Slides 3/12/14 Covers 1/7/14 Pistons 9/11/14 Rods 6/10/14
Connecting rods 18/12/14 Crank shaft 4/9/14 Thrust shaft 3/11/13 Tunnel shafts 10/10/13 Screw shaft 11/11/14 Propeller 3/12/14
Stern tube 3/12/14 Steam pipes tested 5/10/14 Engine and boiler seatings 16/12/14 Engines holding down bolts 14/4/15
Completion of pumping arrangements 3/6/15 Boilers fixed 14/4/15 Engines tried under steam 3/6/15
Main boiler safety valves adjusted 3/6/15 Thickness of adjusting washers A 8 F 3/4 A 1/2 P F 3/4 A 1/2 F P F 3/4 A 1/2 S F 1/2 A 1/2
Material of Crank shaft Steel Identification Mark on Do. 21/12/14 66 Material of Thrust shaft Steel Identification Mark on Do. 3/11/13 66
Material of Tunnel shafts Steel Identification Marks on Do. 13/11/14 R.W.C. Material of Screw shafts Steel Identification Marks on Do. 13/11/14 R.W.C.
Material of Steam Pipes Low-melting iron Test pressure 600 lbs.

Is an installation fitted for burning oil fuel No

Is the flash point of the oil to be used over 150°F. Yes

Have the requirements of Section 49 of the Rules been complied with Yes

Is this machinery duplicate of a previous case Yes If so, state name of vessel P.S. "Glengyle"

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

The machinery of this vessel has been built under special survey, the materials used are good, and the workmanship is satisfactory, it has been properly fitted on board and secured, and the engines have been tried under steam. In my opinion this vessel is eligible for the record of L.M.C. 6, 15.

It is submitted that
this vessel is eligible for
THE RECORD + L.M.C. 6. 15. F.D.

The amount of Entry Fee ... £ 3 : :
Special ... £ 69 : 8 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, JUN 10 1915
When received, 16/6/1915 17/6/15

Charles Cooper
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

WED. 29 DEC. 1915

Committee's Minute FRI. JUL. 16. 1915

Assigned + L.M.C. 6. 15



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