

REPORT ON MACHINERY.

No. 14099.

Port of Greenock

Received at London Office TUES 1 NOV 1904

No. in Survey held at Greenock.

Date, first Survey 26th March 1904 Last Survey 15th Oct 1904

Reg. Book. 20 Suppl. on the Steel S.S. "Ormy" (Russell & Co's 110530) (Number of Visits 51)

Master A. Bergich Built at Port Glasgow By whom built Russell & Co. Tons { Gross } Net } When built 1904

Engines made at Greenock By whom made J. G. Kincaid & Co. when made 1904

Boilers made at Paisley By whom made A. F. Craig & Co. when made 1904

Registered Horse Power _____ Owners Fratelli Cosulich Port belonging to Trieste

Nom. Horse Power as per Section 28 295.5 Is Refrigerating Machinery fitted No. Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 24" 40" & 65" Length of Stroke 42" Revs. per minute _____ Dia. of Screw shaft as per rule 13.02 Material of screw shaft W. Iron

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 ✓ 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 _____ Length of stern bush 53"

Dia. of Tunnel shaft as per rule 11.33 Dia. of Crank shaft journals as per rule 12.42 Dia. of Crank pin 12 1/2 Size of Crank webs 18 1/2 x 8 1/2 Dia. of thrust shaft under collars 12 1/2 Dia. of screw 15-6" Pitch of screw 17-0" No. of blades 4 State whether moveable No Total surface 84 sq. ft.

No. of Feed pumps 2 Diameter of ditto 3 1/2 Stroke 24" Can one be overhauled while the other is at work Yes.

No. of Bilge pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work Yes.

No. of Donkey Engines 2 Sizes of Pumps 10x10 1/4 7x5x6 Duplex No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Four - 3" In Holds, &c. Two - 3" in No 1 hold, Two - 3" in No 2 hold,

Two - 3" in after hold and one - 2 1/2" in tunnel well.

No. of bilge injections one sizes 6" Connected to condenser, or to circulating pump Cir. p. Is a separate donkey suction fitted in Engine room & size Yes - 3 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 ✓

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.

When were stern tube, propeller, screw shaft, and all connections examined in dry dock Before launching Is the screw shaft tunnel watertight Yes.

Is it fitted with a watertight door Yes worked from upper deck

BOILERS, &c.— (Letter for record _____) Total Heating Surface of Boilers 4530 sq. ft. Is forced draft fitted No.

No. and Description of Boilers Two S.S. Multitubular. Working Pressure 180 lbs. Tested by hydraulic pressure to _____

Date of test _____ Can each boiler be worked separately Yes. Area of fire grate in each boiler 66 sq. ft. No. and Description of safety valves to each boiler Two - Spring-loaded Area of each valve 7.06 sq. in Pressure to which they are adjusted 185 lbs. Are they fitted with easing gear Yes

Smallest distance between boilers 4 1/2" Mean dia. of boilers _____ Length _____ Material of shell plates _____

Thickness _____ Range of tensile strength _____ Are they welded or flanged _____ Descrip. of riveting: cir. seams _____ long. seams _____

Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____

Per centages of strength of longitudinal joint _____ Working pressure of shell by rules _____ Size of manhole in shell _____

Size of compensating ring _____ No. and Description of Furnaces in each boiler _____ Material _____ Outside diameter _____

Length of plain part _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____

Working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness _____ Sides _____ Back _____ Top _____ Bottom _____

Pitch of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____

Material of stays _____ Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: _____

Material _____ Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____

Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____

Thickness _____ Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____

Diameter of tubes _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____

Pitch across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of Stays in each _____

Working pressure by rules _____ Superheater or Steam chest; how connected to boiler _____ Can the superheater be shut off and the boiler worked separately _____ Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____ Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____

If stiffened with rings _____ Distance between rings _____ Working pressure by rules _____ End plates: Thickness _____ How stayed _____

Working pressure of end plates _____ Area of safety valves to superheater _____ Are they fitted with easing gear _____

Glasgow Report No. 22217
Lloyd's Register Foundation
W1601-0144

DONKEY BOILER— No. *One* Description *S.S. Multitubular*
 Made at _____ By whom made _____ When made *1904* Where fixed *Stokehold*
 Working pressure *80 lbs.* tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area *22 1/2 sq* Description of safety valves *Two - Spring loaded*
 No. of safety valves *2* Area of each *4.9 sq in* Pressure to which they are adjusted *80 lbs.* If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler *No.* Dia. of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____ Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
 Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Thickness of shell crown plates _____ Radius of do. _____ No. of Stays to do. _____
 Dia. of stays _____ Diameter of furnace _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____ Thickness of furnace crown plates _____ Stayed by _____ Working pressure of shell by rules _____
 Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:— *1 Cast Iron propeller, 1 propeller shaft complete, 3 Cyl. escape valve + springs, 12 shaft coupling, 2 Con. rod, 2 piston rod, 2 mn. bearing, 6 holding down, 6 junk ring, 6 cyl. cover + 6 valve chest cover, bolts + nuts, 2 Feed and 2 Bilge pump valves, 1 feed escape valve spring, 12 boiler + 12 Condenser tubes, 120 Cond. ferrules. Assorted bolts, nuts + iron one set Mn. B. V. Valve springs + 1/2 set Mn. fire bar*
 The foregoing is a correct description,
John. G. Kincaid & Co. Manufacturer.
p. D. Hill

Dates of Survey while building
 During progress of work in shops:— *1904. March 26. 30 April 4. 6. 12. 16. 20. 26. 29. May 3. 5. 7. 12. 16. 23. 28. 30 June 4. 7. 10. 15. 17. 24*
 During erection on board vessel:— *29. July 6. 19. 22. 27. 29. Aug. 1. 3. 22. Sep. 2. 13. 22. 23. 24. 26. 27. 28. 29. 30. Oct 1. 3. 4. 5. 6. 8. 11. 13.*
 Total No. of visits:— *51.* Is the approved plan of main boiler forwarded herewith *No*
 " " " donkey " " " *No.*

General Remarks (State quality of workmanship, opinions as to class, &c. *Workmanship + material good.*
The main steam pipes tested to 360 lbs. hyd. press. + found tight. The engines and Boilers efficiently fitted on board, tried under a full pressure of steam and worked satisfactorily.

The machinery + boilers are now in safe working condition and eligible, in my opinion, to have the notation of +L.M.C. 10.04 entered in the Register Book.

The main + donkey boilers were made in the Glasgow district but the reports or plans have not been forwarded to this office.

Since writing above the Glasgow report and plans of main + donkey boilers have been received, and are herewith attached.

It is submitted that this vessel is eligible for
THE RECORD. + L.M.C. 10.04 FLECHT

J.S. *Bab.*
 2.11.04 2.11.04

The amount of Entry Fee. . . £ 2 : . :
 3 Special Glasgow . . . £ 23 : 3 4
 Donkey Boiler Fee . . . £ 11 : 11 8
 Travelling Expenses (if any) £ : :
 When applied for, 17/10/04
 When received, 19/10/04

R. Elliott.
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute Glasgow 31 OCT 1904

Assigned + L.M.C. 10.04

Greenwell

Certificate (if required) to be sent to

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

Port of _____
 No. in Reg. Book _____
 Owners _____
 Yard No. *5*
DESCRIPTION
Compo
 Capacity of _____
 Where is D. _____
 Position of _____
 Positions of _____
H. S. in
 If cut outs a _____
 circuits _____
 If vessel is _____
 Are the cut _____
 Are all cut _____
 are per _____
 Are all silt _____
 Total number _____
 A Eng. Room _____
 B Office _____
 C _____
 D _____
 E _____
 2 _____
 2 _____
 If are light _____
 Where are _____
DESCRIPT
 Main cable _____
 Branch cable _____
 Branch cable _____
 Leads to la _____
 Cargo light _____
DESCRIPT
 Pure _____
 Joints in _____
 Are all th _____
 made _____
 Are there _____
 How are _____
 up n _____

