

REPORT ON MACHINERY.

No. 67407

Port of London

Received at London Office MON. 5 JUN 1905

No. in Survey held at London Date, first Survey Dec 13/1905 Last Survey May 31 1905
 Reg. Book. 103 on the Eugenie No. 774 for the S. S. "Carlyle" (Number of Visits 4) Tons { Gross 126.2 Net 57.86
 Master Baker No. 775 Built at London By whom built James Iron Works S. S. C. L. When built 1905
 Engines made at London By whom made The James Iron Works S. S. C. L. when made 1905
 Boilers made at London By whom made do: when made 1905
 Registered Horse Power 53 Owners London County Council Port belonging to London
 Com. Horse Power as per Section 28 53 Is Refrigerating Machinery fitted no Is Electric Light fitted yes

GINES, &c.—Description of Engines Diagonal compound No. of Cylinders 2 No. of Cranks 2
 Dia. of Cylinders 16 x 31 Length of Stroke 36 Revs. per minute approx. 63/4 as per rule app. Material of steel
 the screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight
 the propeller boss 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
 vers are fitted, is the shaft lapped or protected between the liners Length of stern bush
 Dia. of Tunnel shaft as per rule approx. 6 3/4 as fitted 6 3/4 Dia. of Crank shaft journals as per rule approx. 6 3/4 as fitted 6 3/4 Dia. of Crank pin 6 3/4 Size of Crank webs 4 1/2 x 7 1/2 Dia. of thrust shaft under
 flars Dia. of wheel (axis) 8-9 Pitch of screw 8 No. of blades 8 State whether movable feathering Total surface
 No. of Feed pumps one Diameter of ditto 3 1/2 Stroke 10 Can one be overhauled while the other is at work —
 No. of Bilge pumps one Diameter of ditto 3 1/2 Stroke 10 Can one be overhauled while the other is at work —
 No. of Donkey Engines one Sizes of Pumps 4 1/2 3 1/4 x 8" stroke No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room one 2" engine + one 2" donkey In Holds, &c. 2" forward + 2" aft

No. of bilge injections 1 sizes 3" Connected to condenser, on to circulating pump Is a separate donkey suction fitted in Engine room & size yes - 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 —
 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 Is the screw shaft tunnel watertight
 Is it fitted with a watertight door worked from

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 700 sq. ft. Is forced draft fitted yes
 and Description of Boilers one S. S. return tube Working Pressure 115 lb Tested by hydraulic pressure to 230
 No. of test 7.3.05 Can each boiler be worked separately — Area of fire grate in each boiler 250' No. and Description of safety valves to
 boiler 2-direct spring Area of each valve 7.07 sq" Pressure to which they are adjusted 115 lb. Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 9-0 Length 8-9 Material of shell plates S
 Thickness 9/16 Range of tensile strength 29-32 Are they welded or flanged no Descrip. of riveting: cir. seams single long. seams treble butt
 Diameter of rivet holes in long. seams 3/4 Pitch of rivets 4 1/2 Lap of plates or width of butt straps 12"
 Percentages of strength of longitudinal joint 83.7 Working pressure of shell by rules 119 Size of manhole in shell 16 x 12
 of compensating ring no No. and Description of Furnaces in each boiler 2 plain Material S Outside diameter 34 7/8
 Length of plain part 70 Thickness of plates 9/16 Description of longitudinal joint welded No. of strengthening rings none
 Working pressure of furnace by the rules 142 Combustion chamber plates: Material S Thickness: Sides 1/2 Back 1/2 Top 9/16 Bottom 1/2
 No. of stays to ditto: Sides 8 1/4 x 7 3/4 Back 8 3/8 x 7 1/2 Top 9 1/4 x 8 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 120
 Material of stays S Diameter at smallest part .93 Area supported by each stay 640" Working pressure by rules 116 End plates in steam space:
 Material S Thickness 1/16 Pitch of stays 17 1/2 x 12 1/2 How are stays secured riv. heads Working pressure by rules 115 Material of stays S
 Material at smallest part 2.87 Area supported by each stay 2180" Working pressure by rules 133 Material of Front plates at bottom S
 Thickness 1/16 Material of Lower back plate S Thickness 1/16 Greatest pitch of stays 11 3/4 Working pressure of plate by rules 115
 Diameter of tubes 2 1/2 Pitch of tubes 3 1/2 Material of tube plates S Thickness: Front 1/16 Back 1/16 Mean pitch of stays 11.4
 Distance across wide water spaces 12 1/2 Working pressures by rules 116 Girders to Chamber tops: Material S Depth and
 Thickness of girder at centre 6 1/2 x 8 - 2 Length as per rule 25 Distance apart 9 1/4 Number and pitch of Stays in each 2 - 8 1/4
 Working pressure by rules 135 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 Material S Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet
 Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —
 Fitted 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 —

W1409-0084

DONKEY BOILER— No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____

No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____

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 Top _____ 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:—

The foregoing is a correct description,

Manufacturer.

For
THE THAMES IRONWORKS, SHIP-BUILDING
AND ENGINEERING COMPANY, LIMITED.

R. W. Turner
Manager.

Dates of Survey while building { During progress of work in shops - 1904. &c. 13. 16. 30. 1905. Jan 10. 11. 18. 25. 31. Feb 6. 8. 13. 14. 17. 18. 20. 22. 23. Mar 2. 7. 8. 15. 16. 17. 23. 29. Apr 1. 5. 7. 9. 18. 20. 27. May 3. 4. 6. 9. 17. 25. }
During erection on board vessel -
Total No. of s _____

Is the approved plan of main boiler forwarded herewith _____

" " " donkey " " "

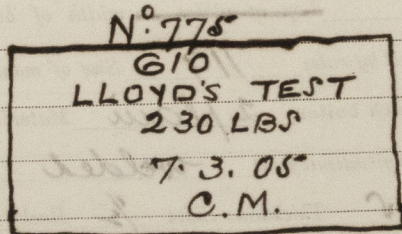
General Remarks (State quality of workmanship, opinions as to class, &c.)

The engine and boiler have been built under special survey. The material has been tested in accordance with the rule requirements. The main steam pipes have been tested by water to 290 lbs, and the boiler to 230 lbs, and they were found sound and tight at these pressures respectively. The safety valves have been adjusted under steam, and the engine seen working.

The workmanship throughout is good.

This vessel's machinery is eligible in my opinion for record of + LMC 5.05.

Boiler stamped:—



It is submitted that
this vessel is eligible for
THE RECORD

H.L.M.C. 5.05 F.D. ELE

J.M. *ImS*
5.6.05

The amount of Entry Fee.. £ 1 : 0 : 0
Special £ 8 : 0 : 0
Donkey Boiler Fee £ : :
Travelling Expenses (if any) £ : :
When applied for, 3/57.05
When received, 3.6.05

C. Marten

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

Committee's Minute

TUES. 6 JUN 1905

Assigned

+ LMC 5.05

MACHINERY CERTIFICATE
WRITTEN.



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Foundation