

REPORT ON MACHINERY.

Port of NEWCASTLE-ON-TYNE

SAT 14 AUG 1897

No. in Survey held at South Shields Date, first Survey 4th Nov 1896 Last Survey 18th Dec 1896
Reg. Book. 41 on the S.S. Marguerite Depeaux at Leith 13th Oct 1896 Number of Visits 7 Gross 246.44 Net 246.44
Master & Carpenter. Built at Inverkeithing By whom built Cumming & Ellis When built 1897
Engines made at Leith By whom made Johnston & Co. when made 1897
Boilers made at South Shields By whom made J. & T. Eltringham & Co. when made 12-1896
Registered Horse Power 117 Owners F. Depeaux et fils Port belonging to Rouen
Nom. Horse Power as per Section 28 117 Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Compound No. of Cylinders 2 No. of Cranks 2
Diameter of Cylinders 22" x 46" Length of Stroke 30" Revolutions per minute 92 Diameter of Screw shaft 8 7/8"
Diameter of Tunnel shaft 8 1/2" Diameter of Crank shaft journals 8 7/8" Diameter of Crank pin 8 7/8" Size of Crank webs 16 3/4" x 6 3/8"
Diameter of screw 10' 3" Pitch of screw 12' 6" No. of blades 4 State whether moveable no Total surface 36 sq
No. of Feed pumps 2 Diameter of ditto 2 1/4" Stroke 18" Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 Diameter of ditto 2 1/4" Stroke 15" Can one be overhauled while the other is at work yes
No. of Donkey Engines 2 Sizes of Pumps 5 1/4" x 4 3/4" x 5" & 4 1/2" x 2 3/4" x 4" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Two 2" dia. In Holds, &c. Two 2" dia.

No. of bilge injections 1 sizes 3 1/2" Connected to condenser or to circulating pump yes 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 yes
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 Sections to hold How are they protected Wood casing
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 has been Is the screw shaft tunnel watertight none
Is it fitted with a watertight door yes worked from yes

BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 1480 sq Is forced draft fitted no
No. and Description of Boilers One Multi-Single ended Working Pressure 125 lbs Tested by hydraulic pressure to 250 lbs
Date of test 18-12-96 Can each boiler be worked separately yes Area of fire grate in each boiler 62 sq No. and Description of safety valves to each boiler Two
Area of each valve 8.29 sq Pressure to which they are adjusted 125 lbs Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork 10" Mean diameter of boilers 13-11"
Length 10-6 Material of shell plates steel Thickness 1 1/8" Description of riveting: circum. seams lap d. 7 long. seams lap 4 rows
Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 5 1/2" Lap of plates on width of butt straps 12"
Per centages of strength of longitudinal joint 78 Working pressure of shell by rules 126 lbs Size of manhole in shell 16" x 12"
Size of compensating ring 7 1/4" x 1 1/8" No. and Description of Furnaces in each boiler 3 boxes Material steel Outside diameter 40"
Length of plain part top 1 1/8" Thickness of plates bottom 3/8" Description of longitudinal joint welded No. of strengthening rings none
Working pressure of furnace by the rules 125 lbs Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8"
Pitch of stays to ditto: Sides 10 1/2" x 10 1/2" Back 10 1/2" x 10 1/2" Top palms If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 128 lbs
Material of stays steel Diameter at smallest part 1 1/32" Area supported by each stay 105 sq Working pressure by rules 128 lbs End plates in steam space: Material steel Thickness 1" Pitch of stays 19 1/2" x 19 1/2" How are stays secured DN & W Working pressure by rules 128 lbs Material of stays steel
Diameter at smallest part 2 3/32" Area supported by each stay 370 sq Working pressure by rules 134 lbs Material of Front plates at bottom steel
Thickness 5/8" Material of Lower back plate steel Thickness 3/32" Greatest pitch of stays 14" Working pressure of plate by rules 125 lbs
Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates steel Thickness: Front 1 7/8" Back 1 3/8" Mean pitch of stays 11 1/8"
Pitch across wide water spaces 14 1/2" Working pressures by rules 145 lbs Girders to Chamber tops: Material none 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; not connected to boiler none Can the superheater be shut off and the boiler worked separately yes 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 —

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LTH 566-0208

DONKEY BOILER— Description *vertical with 3 cross tubes*
Made at *Leith* By whom made *John Cram & Co* When made *17.12.96* Where fixed *Stokehold*
Working pressure *60 lbs* tested by hydraulic pressure to *120 lbs* No. of Certificate *394* Fire grate area *17 sq* Description of safety valves *Spring*
No. of safety valves *1* Area of each *9.6 sq* Pressure to which they are adjusted *60 lbs* If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no* Diameter of donkey boiler *6' 0"* Length *10' 9"* Material of shell plates *Steel* Thickness *7/16"*
Description of riveting long seams *Lap S. Rivd* Diameter of rivet holes *13/16"* Whether punched or drilled *drilled* Pitch of rivets *22"*
Lap of plating *4"* Per centage of strength of joint Rivets *88.8* Thickness of shell crown plates *9/16"* Radius of do. *5' 9"* No. of Stays to do. *✓*
Dia. of stays. *✓* Diameter of furnace Top *4' 10"* Bottom *5' 2"* Length of furnace *4' 3"* Thickness of furnace plates *15/32"* Description of joint *Lap S. Rivd* Thickness of furnace crown plates *5/8"* Stayed by *uptake* Working pressure of shell by rules *86 lbs*
Working pressure of furnace by rules *62 lbs* Diameter of uptake *15 7/8"* Thickness of uptake plates *7/16"* Thickness of water tubes *1/2"*

SPARE GEAR. State the articles supplied:— *See spec Rules*

The foregoing is a correct description.

Manufacturer. of *John Cram & Co*

John Cram & Co
Manufacturers of Engines and Donkey Boilers

Dates of Survey { During progress of work in shops - *1896- Nov 4. 10. 17. 26 Decr 4. 17. 18- 1897- at Leith, 1896 Oct 13. 19. 27. 28. 30 Nov 4. 1897*
while building { During erection on board vessel - *11. 18. 20. 30. Decr 5. 10. 12. 16. 17. 22. 26. 31, Jan 6. 11. 14. 21. 27, Feb 2. 4. 13. 19. 22. 24. 1897*
Total No. of visits *47*

General Remarks (State quality of workmanship, opinions as to class, &c. *This main boiler has been constructed under special survey the workmanship being sound & good throughout.*

The engines of this vessel have been constructed under special survey as also the donkey boiler & the materials & workmanship are sound & good. The main boiler has been examined fitted on board. The engines have been tried under steam & the safety valves adjusted under steam at the working pressure.

The machinery of this vessel is now in good & safe working condition & eligible in my opinion to have the notation of + LMC 6, 97.

The approved boiler tracing is forwarded herewith.

It is submitted that this vessel is eligible for THE RECORD.

+ L.M.C. 6, 97 *Elc Light*

HL

14/8/97

The amount of Entry Fee. £ *2* :- at *Leith*. When applied for.

Special £ *5* : *17* : *4* at *Newcastle* 9. 2. 18. 97

Donkey Boiler Fee £ *2* : *2* : *0* at *Leith*. When received.

Travelling Expenses (if any) £ *-* : *4* : *0* 18. 2. 18. 97

Committee's Minute

FRI 20 AUG 1897

Assigned

MACHINERY CERTIFICATE

WRITTEN under name of *Eleanor* 14/10/97

WRITTEN

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



© 2019 FRI. SEP 15 1897
TUES. 13 DEC 1896
TUES. 16 MAY 1893
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