

REPORT ON MACHINERY.

Port of *Leith*

MON. JUN 29 1896

No. in Survey held at *Leith*
Reg. Book.Date, first Survey *19th Feb.*Last Survey *25th June 1896*(Number of Visits *28*)on the *S. K. "County of Leith"*Gross *114.42*Net *22.07*Master *Leith*Built at *Leith*By whom built *Hawthorne & Co*When built *1896*Engines made at *Leith*By whom made *Hawthorne & Co*when made *1896*Boilers made at *Do*By whom made *Do*when made *1896*Registered Horse Power *34*Owners *County Steam Line Fishing Co* Port belonging to *Kirkcaldy*Nom. Horse Power as per Section 28 *41*

ENGINES, &c.—

Description of Engines *Compound, inverted*No. of Cylinders *2*Diameter of Cylinders *14" & 29"* Length of Stroke *21"* Revolutions per minute *125* Diameter of Screw shaft *as per rule 5.7"*Diameter of Tunnel shaft *as per rule 5.41"* Diameter of Crank shaft journals *6"* Diameter of Crank pin *6"* Size of Crank webs *11" x 4 1/2"*Diameter of screw *6' 9"* Pitch of screw *9' 10 1/2"* No. of blades *4* State whether moveable *No* Total surface *18 f*No. of Feed pumps *1* Diameter of ditto *2 1/8"* Stroke *11"* Can one be overhauled while the other is at work ☒No. of Bilge pumps *1* Diameter of ditto *2 1/8"* Stroke *11"* Can one be overhauled while the other is at work ☒No. of Donkey Engines *One* Sizes of Pumps *4 1/8" x 2 1/2" x 6"* No. and size of Suctions connected to both Bilge and Donkey pumpsEngine Room *Two, 2" dia. & ejector 2" dia.* In Holds, &c. *One 2" dia. & ejector 2" dia.*No. of bilge injections *1* sizes *3 1/4"* Connected to condenser, or to circulating pump *Yes* Is a separate donkey suction fitted in Engine room & size *Yes 2" dia.*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 *Bilge suction to hold* How are they protected *By 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 *New vessel* Is the screw shaft tunnel watertight *None*Is it fitted with a watertight door ☒ worked from ☒

BOILERS, &c.—

(Letter for record *S.*)Total Heating Surface of Boilers *745 f*No. and Description of Boilers *One, cylindrical single ended* Working Pressure *120 lbs* Tested by hydraulic pressure to *240 lbs*Date of test *4/6/96* Can each boiler be worked separately ☒ Area of fire grate in each boiler *29 f* No. and Description of safety valves toEach boiler *Two, direct spring* Area of each valve *3.97 sq"* Pressure to which they are adjusted *120 lbs* Are they fittedWith easing gear *Yes* Smallest distance between boilers or uptakes and bunkers or woodwork *8"* Mean diameter of boilers *9' 5 25/32"*Length *9' 3"* Material of shell plates *Steel* Thickness *25/32"* Description of riveting: circum. seams *Lap, & Riv'd long. seams Lap & Riv'd*Diameter of rivet holes in long. seams *1 3/32"* Pitch of rivets *4"* Lap of plates or width of butt straps *7 3/8"*Centages of strength of longitudinal joint *76.5-* Working pressure of shell by rules *124 lbs* Size of manhole in shell *16" x 12"*Plate *72.5-* No. and Description of Furnaces in each boiler *2, plain* Material *Steel* Outside diameter *33 3/32"*No. of compensating ring *Mc Keils'* Length of plain part *top 6.4 ft bottom 6.4 ft* Thickness of plates *35/64"* Description of longitudinal joint *Welded* No. of strengthening rings *None*Working pressure of furnace by the rules *127 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *1/2"* Back *1/2"* Top *1/2"* Bottom *5/8"*Pitch of stays to ditto: Sides *8"* Back *8"* Top *8"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *120 lbs*Material of stays *Steel* Diameter at smallest part *1-19"* Area supported by each stay *64 sq"* Working pressure by rules *148 lbs* End plates in steam space:Material *Steel* Thickness *3/4"* Pitch of stays *14 1/2"* How are stays secured *S. & W.* Working pressure by rules *127 lbs* Material of stays *Steel*Area at smallest part *34 3/4 sq"* Area supported by each stay *196 sq"* Working pressure by rules *157 lbs* Material of Front plates at bottom *Steel*Thickness *3/4"* Material of Lower back plate *Steel* Thickness *3/4"* Greatest pitch of stays *13"* Working pressure of plate by rules *151 lbs*Diameter of tubes *3 1/4"* Pitch of tubes *4 1/2"* Material of tube plates *Steel* Thickness: Front *3/4"* Back *3/4"* Mean pitch of stays *9"*Pitch across wide water spaces *14"* Working pressures by rules *183 lbs* Girders to Chamber tops: Material *Steel* Depth andThickness of girder at centre *5" x 12"* Length as per rule *1' 11"* Distance apart *7 1/2"* Number and pitch of Stays in each *2, 8"*Working pressure by rules *143 lbs* Superheater or Steam chest; how connected to boiler *None* Can the superheater be shut off and the boiler workedSeparately ☒ Diameter ☒ Length ☒ Thickness of shell plates ☒ Material ☒ Description of longitudinal joint ☒ Diam. of rivetPitch of rivets ☒ Working pressure of shell by rules ☒ Diameter of flue ☒ Material of flue plates ☒ Thickness ☒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 ☒

DONKEY BOILER— Description *None*

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 ☒
Diameter of donkey boiler ☒ Length ☒ Material of shell plates ☒ Thickness ☒
Description of riveting long. seams ☒ Diameter 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. ☒
Diameter 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:— *As per Rule.*

The foregoing is a correct description,

Hawthorn & Co. Ltd. Manufacturer.

James Bradman Director

General Remarks (State quality of workmanship, opinions as to class, &c.) The engines & boiler of this vessel have been constructed under special survey & the materials & workmanship are found to be good. The engines have been tried & the boiler safety valves adjusted at the working pressure. The machinery is now in good & safe working condition & eligible in my opinion to have the notation of *+ L.M.C. 6, 96*. The boiler tracing is forwarded herewith.

Carle

It is submitted that
this vessel is eligible for
THE RECORD + *L.M.C. 6, 96*

R.S.

29. 6. 96.

Certificate (if required) to be sent to

The amount of Entry Fee.	£ / : - +	When applied for,
Special	£ 8 : - +	<i>26. June 1896</i>
Donkey Boiler Fee	£ - : - +	When received,
Travelling Expenses (if any) £ - : - +		<i>2. 7. 1896</i>

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

Committee's Minute

TUES. JUN 30 1896

Assigned

+ L.M.C. 6, 96



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Foundation