

REPORT ON MACHINERY.

No. 7437

Port of *Leith*

THURS 22 FEB 1894

No. in Survey held at *Leith* Date, first Survey *Nov 13-93* Last Survey *Feb 2-94*
 Reg. Book. *12* on the *Wood s.s. Fishing vessel Glenogil* (Number of Visits *14*)
 Master *D. Birrell* Built at *Aberdeen* By whom built *H. Jarvis* Tons { Gross *94.9*
 Engines made at *Leith* By whom made *John Grant & Co* when made *1894*
 Boilers made at *Leith* By whom made *John Grant & Co* when made *1894*
 Registered Horse Power *34* Owners *East of Hope Steam Fishing Coy Ltd* Port belonging to *Kirkcaldy*
 Nom. Horse Power as per Section 28 *✓*

ENGINES, &c.— Description of Engines *Compound, Inverted, Simple cond.* No. of Cylinders *2*
 Diameter of Cylinders *14" 28"* Length of Stroke *20* Revolutions per minute *110* Diameter of Screw shaft *as per rule 5.2"*
 Diameter of Tunnel shaft *as per rule 4.9"* Diameter of Crank shaft journals *5 1/2"* Diameter of Crank pin *5 1/2"* Size of Crank webs *built*
 Diameter of screw *7.6"* Pitch of screw *9 ft.* No. of blades *4* State whether moveable *no* Total surface *15.2 sq ft*
 No. of Feed pumps *1* Diameter of ditto *2 1/4"* Stroke *10"* Can one be overhauled while the other is at work *✓*
 No. of Bilge pumps *1* Diameter of ditto *2 1/4"* Stroke *10"* Can one be overhauled while the other is at work *✓*
 No. of Donkey Engines *1* Sizes of Pumps *6" cyl 8" str. 3" pump* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *one 2"* In Holds, &c. *four hold one 2" each*
 No. of bilge injections *1* sizes *2 1/2"* Connected to condenser, or to circulating pump *C.P.* Is a separate donkey suction fitted in Engine room & size *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 *skin* 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 *604 sq ft*
 No. and Description of Boilers *one cylindrical, multitubular* Working Pressure *100* Tested by hydraulic pressure to *200*
 Date of test *10.1.94* Can each boiler be worked separately *✓* Area of fire grate in each boiler *33 sq ft* No. and Description of safety valves to
 each boiler *2 - 2 1/2" each* Area of each *4.9 sq ft* Pressure to which they are adjusted *100 lbs* Are they fitted
 with easing gear *yes* Smallest distance between boilers or uptakes and bunkers or woodwork *12"* Mean diameter of boilers *9.3"*
 Length *9.0"* Material of shell plates *steel* Thickness *5/8"* Description of riveting: circum. seams *D.R.L.* long. seams *D.B.S. D.R.*
 Diameter of rivet holes in long. seams *7/8"* Pitch of rivets *4 1/2" 2 1/4"* Lap of plates or width of butt straps *9 1/4"*
 Per centages of strength of longitudinal joint *93% rivets 80.6% plate* Working pressure of shell by rules *113* Size of manhole in shell *16" x 12"*
 Size of compensating ring *7" x 7/8"* No. and Description of Furnaces in each boiler *2 plain* Material *steel* Outside diameter *2-11 1/2"*
 Length of plain part *top 6.3" bottom 6.3"* Thickness of plates *5/8"* Description of longitudinal joint *D.B.S. S.R.* No. of strengthening rings *none*
 Working pressure of furnace by the rules *111* Combustion chamber plates: Material *steel* Thickness: Sides *15/32"* Back *7/16"* Top *15/32"* Bottom *15/32"*
 Pitch of stays to ditto: Sides *7 1/2"* Back *6 3/4"* Top *10 3/4" x 7"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *100*
 Material of stays *steel* Diameter at smallest part *1 1/2"* Area supported by each stay *45.5 sq in* Working pressure by rules *120* End plates in steam space:
 Material *steel* Thickness *15/16"* Pitch of stays *20 x 18* How are stays secured *D.N. and riv. ship* Working pressure by rules *123* Material of stays *steel*
 Diameter at smallest part *2 3/8"* Area supported by each stay *360 sq in* Working pressure by rules *110* Material of Front plates at bottom *steel*
 Thickness *5/8"* Material of Lower back plate *steel* Thickness *5/8"* Greatest pitch of stays *11 1/4"* Working pressure of plate by rules *100*
 Diameter of tubes *3 1/2"* Pitch of tubes *4 1/4" x 4 5/8"* Material of tube plates *steel* Thickness: Front *5/8"* Back *1/2"* Mean pitch of stays *14 1/4"*
 Pitch across wide water spaces *13"* Working pressures by rules *100* Girders to Chamber tops: Material *steel* Depth and
 thickness of girder at centre *5 5/8" x 1 1/4"* Length as per rule *1-8 1/2"* Distance apart *10 3/4"* Number and pitch of Stays in each *2 - 7"*
 Working pressure by rules *120* 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 *✓*

DONKEY BOILER— Description *No donkey boiler*

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. _____

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 :—

No per rules requirements.—

The foregoing is a correct description,

John Grant & Co Manufacturer.

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

good. The machinery of this vessel has been built under special survey and eligible in our opinion to have the notification + LMC 2.94 in the Register Book—

The engines have been seen running under steam, & the safety-valves have been adjusted to 100 lbs per sq. inch. — Result—satisfactory.—

The drawing of the main boiler is herewith enclosed.—

It is submitted that
this vessel is eligible for
THE RECORD

L.M.C. 2.94

R. E.
22/2/94

Certificate (if required) to be sent to **MACHINERY CERTIFICATE** WRITTEN.

The amount of Entry Fee. . . £ 1 : — : — When applied for,
Special £ 8 : 0 : 0 Feb 19th 1894
Donkey Boiler Fee £ — : — : — When received,
Travelling Expenses (if any) £ — : — : — Feb 23rd 1894

Committee's Minute

Assigned

FRI 23 FEB 1894

+ LMC 2,94

James St. Maur *Francis Nelson*
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation