

REPORT ON MACHINERY.

THURS. 2 MAR 1893

Port of *Leith*

Received at London Office 18

No. in Survey held at
Reg. Book.*Leith*Date, first Survey *5th November* Last Survey *28th Feb.* 1893(Number of Visits *21*)Built on the *wood & s.s. Fishing vessel "William Tennant"*Tons { Gross *93.45*
Net *20.83*Master *J. Smith*Built at *Austruther*By whom built *W. Jarvis*When built *1893*Engines made at *Leith*By whom made *John Crau & Co.*when made *1893*Boilers made at *do.*By whom made *do.*when made *1893*Registered Horse Power *34*Owners *Austruther Steam Line Fishing Co*Port belonging to *Kirkcaldy*

Nom. Horse Power as per Section 28

ENGINES, &c.—

Description of Engines

Compound, surface condensing.

No. of Cylinders

Two

Diameter of Cylinders *14" x 28"* Length of Stroke *20"* Revolutions per minute *110* Diameter of Screw shaft *as per rule 5.2*
 Diameter of Tunnel shaft *as fitted 5.2* Diameter of Crank shaft journals *5.2* Diameter of Crank pin *5.2* Size of Crank webs *built*
 Diameter of screw *7-6"* Pitch of screw *9-0"* No. of blades *4* State whether moveable *no* Total surface *15.2*
 No. of Feed pumps *one* Diameter of ditto *2 1/4"* Stroke *10"* Can *one* be overhauled while the other is at work *yes*
 No. of Bilge pumps *one* Diameter of ditto *2 1/4"* Stroke *10"* Can *one* be overhauled while the other is at work *yes*
 No. of Donkey Engines *one* Sizes of Pumps *6 cpl. 8 stroke, 3 pump* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *2 x 2 dia.* In Holds, &c. *one x 2 dia.*

No. of bilge injections *one* sizes *2 1/2"* Connected to condenser, or to circulating pump *CR* 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 *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 *while building* 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

*604 sq ft*No. and Description of Boilers *one. Cyl. Multi.*Working Pressure *100* Tested by hydraulic pressure to *200*Date of test *12.1.93* Can each boiler be worked separately *—* Area of fire grate in each boiler *33 sq ft* No. and Description of safety valves toeach boiler *two, direct spring.* Area of each valve *4.9* Pressure to which they are adjusted *105 lbs* Are they fittedwith easing gear *yes* Smallest distance between boilers or uptakes and bunkers or woodwork *8"* Mean diameter of boilers *9-3"*Length *9-0"* Material of shell plates *steel* Thickness *5/8"* Description of riveting: circum. seams *L.D.R.* long. seams *D.B.S., D.R.*Diameter of rivet holes in long. seams *7/8"* Pitch of rivets *4 1/2 x 2 1/4"* Lap of plates or width of butt straps *9 1/4"*Per centages of strength of longitudinal joint *93.7%* Working pressure of shell by rules *113* Size of manhole in shell *16" x 13"*Size of compensating ring *4' x 5/8"* No. and Description of Furnaces in each boiler *two plain.* Material *steel* Outside diameter *2' 11 1/2"*Length of plain part *top 6-3"* Thickness of plates *crown 1/2"* 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 *9/32"* 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 1/32"* Area supported by each stay *45.5"* 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 *DN.R. slip* Working pressure by rules *123* Material of stays *steel*Diameter at smallest part *2 3/8"* Area supported by each stay *360"* 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 3/4 x 4 3/8"* Material of tube plates *steel* Thickness: Front *5/8"* Back *7/16"* 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 andthickness 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 x 7"*Working pressure by rules *120* 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 rivetholes *—* 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 *—*

L714 563 - 0067

DONKEY BOILER— 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 _____
 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:— *As required by Rule.*

The foregoing is a correct description,

John Grant & Co. Manufacturer.

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

The machinery of this vessel has been built under special survey, fitted on board, tried under steam, & is now in safe working order & eligible in our opinion to be classed & to have record of +LMC 2,93 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. *+LMC 2,93*

J. L. M. 2/3/93

Certificate (if required) to be sent to *Leith Office*

The amount of Entry Fee... £ 1 : - : -
 Special ... £ 8 : - : -
 Donkey Boiler Fee ... £ - : - : -
 Travelling Expenses (if any) £ - : 17 : -

When applied for,
1st March 1893

When received,
3/3/93

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

Committee's Minute

FRI 3 MAR 1893

MACHINERY CERTIFICATE
WRITTEN.

Assigned

+LMC 2,93



© 2019

Lloyd's Register
Foundation