

REPORT ON MACHINERY.

THURS. 29 SEP 1892

Port of *Lith*

Received at London Office 15

No. in Survey held at *Lith* Date, first Survey *10th June* Last Survey *26th Sept 1892.*
eg. Book. (Number of Visits *20*)

on the *wood s.s. "Anster Fair"* Tons ^{Gross} *88.41* _{Net} *11.03*
When built *1892*

Master *S. Birrell 92-93* Built at *Austruther* By whom built *W. Jarvis*
Engines made at *Lith* By whom made *John Cran obo* when made *1892*
Boilers made at *Lith* By whom made *John Cran obo* when made *1892*

Registered Horse Power *34* Owners *Austruther Steam Line Fishing Co. Ltd.* Port belonging to *Kirkcaldy*
Nom. Horse Power as per Section 28 *—*

ENGINES, &c.— Description of Engines *Compound surface condensing* No. of Cylinders *2*
 Diameter of Cylinders *14" x 28"* Length of Stroke *20* Revolutions per minute *110* Diameter of Screw shaft ^{as per rule} *5.2* _{as fitted} *5.2*
 Diameter of Tunnel shaft ^{as per rule} *4.97* _{as fitted} *5.74* Diameter of Crank shaft journals *5.74* Diameter of Crank pin *5.74* Size of Crank webs *6.12 x 5.24*
 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 *2.74* Stroke *10"* Can ^{it} be overhauled while the other is at work *yes*
 No. of Bilge pumps *one* Diameter of ditto *2.74* Stroke *10"* Can ^{it} be overhauled while the other is at work *yes*
 No. of Donkey Engines *one* Sizes of Pumps *6" dia. x 8" stroke. 3 pump.* No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room *two. 2" dia* In Holds, &c. *one. 2" dia.*
 No. of bilge injections *one* sizes *2.74* Connected to condenser, or to circulating pump *no* 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*
 That 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 *when built* 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 7*
 No. and Description of Boilers *One Cyl. multi.* Working Pressure *100* Tested by hydraulic pressure to *200*
 Date of test *15.8.92* Can each boiler be worked separately *—* Area of fire grate in each boiler *35 1/2* No. and Description of safety valves to
 each boiler *2 direct spring* Area of each valve *4.9* Pressure to which they are adjusted *105 lb* Are they fitted
 with 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.P.R.* 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*
 Percentages of strength of longitudinal joint ^{rivets} *90* _{plate} *80.4* Working pressure of shell by rules *113* Size of manhole in shell *16 x 12"*
 Size of compensating ring *7 x 5 1/8* 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* _{bottom} *6-3* Thickness of plates ^{crowns} *1/2* _{bottom} *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 *1 1/2* Back *7/8* Top *1 1/2* Bottom *1 1/2*
 Pitch of stays to ditto: Sides *7 1/2* Back *6 3/4* Top *10 1/4 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* Working pressure by rules *150* End plates in steam space:
 Material *steel* Thickness *1 1/2* Pitch of stays *20 x 18"* How are stays secured *D.R. or slip* Working pressure by rules *123* Material of stays *steel*
 Diameter at smallest part *2 3/8* Area supported by each stay *360.0* Working pressure by rules *110* Material of Front plates at bottom *steel*
 Thickness *3/8* Material of Lower back plate *steel* Thickness *3/8* Greatest pitch of stays *11"* 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 *1 1/2* Mean pitch of stays *14 1/2*
 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 3/8 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 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 *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 _____ Plates _____ 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 Brant & 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 and is now in safe working order and eligible, in my opinion, to be classed and to have record of + L.M.C. 9.92.

[Large blue scribbled signature]

It is submitted that this vessel is eligible for FEE RECORD + L.M.C. 9.92
C.W.L.
29.9.92

Certificate (if required) to be sent to _____
The amount of Entry Fee.. £ 1 : :
Special £ 8 : :
Donkey Boiler Fee £ _____
Travelling Expenses (if any) £ _____
When applied for, *28th Sept 92*
When received, *6/10/92*

W.J. Darling.
Engineer-Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute
Assigned
FRI 30 SEP 1892
+ L.M.C. 9.92

