

## REPORT ON MACHINERY.

THURS. 29 SEP 1892

Port of *Lith*

Received at London Office

15

No. in Survey held at *Lith*  
Reg. Book.Date, first Survey *10<sup>th</sup> June*Last Survey *26<sup>th</sup> Sept 1892*(Number of Visits *20*)on the *wood s.s. "Anster Fair"*Tons  $\left\{ \begin{array}{l} \text{Gross} \quad 88.41 \\ \text{Net} \quad 11.03 \end{array} \right.$ When built *1892*Master *J. Birrell 92-93* Built at *Austruther* By whom built *W. Jarvis*Engines made at *Lith* By whom made *John Cran & Co*when made *1892*Boilers made at *Lith* By whom made *John Cran & Co*when made *1892*Registered Horse Power *34*Owners *Austruther Steam Line Fishing Co. Ltd.* Port belonging to *Kirkcaldy*

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* Diameter of Crank shaft journals *5.2* Diameter of Crank pin *5.2* Size of Crank webs *6.2 x 5.2*  
*as fitted 5.2*

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 *2.75* Stroke *10"* Can *one* be overhauled while the other is at work *yes*

No. of Bilge pumps *one* Diameter of ditto *2.75* Stroke *10"* Can *one* be overhauled while the other is at work *yes*

No. of Donkey Engines *one* Sizes of Pumps *6.25 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 *2.75* 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*

Then were stern tube, propeller, screw shaft, and all connections examined in dry dock *while 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*

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 *no* Area of fire grate in each boiler *35.5* 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 *7/8* 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 - 2 1/4* Lap of plates or width of butt straps *9 1/4*

Percentages of strength of longitudinal joint *90* 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 *top 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 *7/8* Back *7/8* Top *7/8* Bottom *7/8*

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 *7/8* Pitch of stays *20 x 18"* How are stays secured *D.R. & S.R.* 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 *7/8* Material of Lower back plate *steel* Thickness *7/8* 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 *7/8* Back *7/8* 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 *no* Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Boles 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 \_\_\_\_\_ 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.*

*It is submitted that  
this vessel is eligible for  
FREE RECORD + L.M.C. 9.92  
C.V.L.  
29.9.92*

Certificate (if required) to be sent to \_\_\_\_\_

The amount of Entry Fee.. £ 1 : : When applied for, *28th Feb 92*  
Special .. .. £ 8 : :  
Donkey Boiler Fee .. .. £ — : :  
Travelling Expenses (if any) £ — : : When received, *6/10/92*

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

Committee's Minute

FRI 30 SEP 1892

Assigned

*+ L.M.C. 9.92*



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Foundation