

REPORT ON MACHINERY.

Port of *Leith*

Received at London Office

FRI. 4 OCT 1895

No. in Survey held at *Leith*Date, first Survey *10th May 1895* Last Survey *Sept 19th 1895*

Reg. Book.

(Number of Visits *9*)on the *S. H. "East Neuk"*Tons { Gross *117.57*
Net *10.25*When built *1895*Master *J. Watson* Built at *Anstruther* By whom built *William Jarvis*Engines made at *Sunderland* By whom made *North Eastern Marine & Co (Lim)* when made *1894*Boilers made at *do* By whom made *do* when made *1894*Registered Horse Power *50* Owners *Coil Steam Fishing Co (Lim)* Port belonging to *Hickcaldy*Nom. Horse Power as per Section 28 *44.5 NP*

ENGINES, &c.— Description of Engines *Compound* No. of Cylinders *2*

Diameter of Cylinders *16" x 32"* Length of Stroke *22"* Revolutions per minute *100* Diameter of Screw shaft *as per rule 5.9"*
Intermediate as per rule *5.6"* Diameter of Crank shaft journals *6"* Diameter of Crank pin *6"* Size of Crank webs *7" x 4"*
 Diameter of ~~Tunnel~~ shaft *as fitted 5.3/4"*

Diameter of screw *8' 0"* Pitch of screw *10' 0"* No. of blades *4* State whether moveable *no* Total surface *18.9 sq*

No. of Feed pumps *1* Diameter of ditto *2 1/2"* Stroke *12"* Can one be overhauled while the other is at work *✓*

No. of Bilge pumps *1* Diameter of ditto *2 1/2"* Stroke *12"* Can one be overhauled while the other is at work *✓*

No. of Donkey Engines *one* Sizes of Pumps *5" x 3" x 4 1/2"* No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room *one 2 1/2" dia & 1 1/2" ejector* In Hold, &c. *one in hold 2" dia*

No. of bilge injections *1* sizes *2 1/2"* Connected to condenser, or to circulating pump *yes* Is a separate donkey suction fitted in Engine room & size *yes 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 ~~plating~~ *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*

Then 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) Total Heating Surface of Boilers *800 sq feet*

No. and Description of Boilers *one multitubular single ended* Working Pressure *100 lbs* Tested by hydraulic pressure to *200 lbs*

Date of test *16-8-95* Can each boiler be worked separately *✓* Area of fire grate in each boiler *30 sq* No. and Description of safety valves to

each boiler *two, spring* Area of each valve *4.9 sq* Pressure to which they are adjusted *105 lbs* Are they fitted

with easing gear *yes* Smallest distance between boilers or uptakes and bunkers *on woodwork 7"* Mean diameter of boilers *10' 4 3/4"*

Length *9' 6"* Material of shell plates *Steel* Thickness *5/8"* Description of riveting: circum. seams *lap & Rivet* long. seams *SBS & Rivet*

Diameter of rivet holes in long. seams *13/16"* Pitch of rivets *4 1/4"* Lap of plates or width of butt straps *8 3/4"*

Percentage of strength of longitudinal joint *87* Working pressure of shell by rules *103 lbs* Size of manhole in shell *16" x 12"*

Size of compensating ring *6 x 23/32"* No. and Description of Furnaces in each boiler *2-plain* Material *Steel* Outside diameter *36"*

Length of plain part *top 6' 0"* Thickness of plates *crown 1"* Description of longitudinal joint *welded* No. of strengthening rings *1/2 each*
bottom 6' 0" *bottom 2"*

Working pressure of furnace by the rules *111 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *5/8"* Back *9/16"* Top *5/8"* Bottom *5/8"*

Pitch of stays to ditto: Sides *9 1/4"* Back *10 3/8"* Top *7 3/4"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *110 lbs*

Material of stays *Steel* Diameter at smallest part *1 3/8"* Area supported by each stay *107 sq* Working pressure by rules *102 lbs* End plates in steam space:

Material *Steel* Thickness *23/32"* Pitch of stays *15"* How are stays secured *nuts* Working pressure by rules *102 lbs* Material of stays *Steel*

Diameter at smallest part *1 29/32"* Area supported by each stay *225 sq* Working pressure by rules *116 lbs* Material of Front plates at bottom *Steel*

Thickness *3/4"* Material of Lower back plate *Steel* Thickness *23/32"* Greatest pitch of stays *13"* Working pressure of plate by rules *105 lbs*

Diameter of tubes *3 1/4"* Pitch of tubes *4 1/2" x 4 5/8"* Material of tube plates *Steel* Thickness: Front *3/4"* Back *3/4"* Mean pitch of stays *13 1/2" x 13 3/8"*

Pitch across wide water spaces *1/4"* Working pressures by rules *100 lbs* Girders to Chamber tops: Material *Steel* Depth and

Thickness of girder at centre *6 3/8" x 2"* Length as per rule *26 5/16"* Distance apart *7 3/4"* Number and pitch of Stays in each *one stay*

Working pressure by rules *150 lbs* 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

Pitch 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

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 per Rule.*

The foregoing is a correct description,

Manufacturer. *John Brown & Co*

General Remarks (State quality of workmanship, opinions as to class, &c. *The engines & boiler of this vessel were taken out of the steamer "Kate Thomson" wrecked in January 1895, please see Sunderland report No. 30564 & Secretary's letter of 13th May 1895. They have now been overhauled & examined throughout, a new main steam pipe, intermediate shaft, screw shaft & propeller have been fitted the boiler & main steam pipe have been tested by hydraulic pressure to 200 lbs per square inch with satisfactory results. The engines have been tried & the boiler safety valves adjusted under steam at the working pressure. The machinery is now in good & safe working condition & eligible in my opinion to have the notation of +LMC 9.*

It is submitted that this vessel is eligible for THE RECORD.

LMC 9.95

NE & B. 94 re-filled 95

Certificate (if required) to be sent to

The amount of Entry Fee.. £ ✓ : ✓ : _____ When applied for, _____

Special £ 5 : 5 : _____ 2.000 18.00

Donkey Boiler Fee £ - : ✓ : _____ When received, _____

Travelling Expenses (if any) £ ✓ : ✓ : _____ 18.00

Committee's Minute **TUES. 8 OCT 1895**

Assigned

+ LMC 9.95

+ NE & B. 94 re-filled 95

MADE BY CERTIFICATE WRITTEN.

Thomas Field

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



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