

REPORT ON MACHINERY.

No. 18015

Port of *Hull*

Received at London Office **THUR. 21 JUN 1906**

Survey held at *Selby & Hull* Date, first Survey *Jan 26th* Last Survey *June 7th 1906*

on the *Screw Trawler "Westminster"* (Number of Visits *21*) Tons ^{Gross} *252* _{Net} *106*

Built at *Selby* By whom built *Cochrane & Sons* When built *1906*

made at *Hull* By whom made *Charles D. Holmes & Co* when made *1906*

made at *do* By whom made *do* when made *1906*

Horse Power *1* Owners *Premier Steam Fishing Co* Port belonging to *Grimsby*

Power as per Section 28 *68.74* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *No*

ES, &c.—Description of Engines *Triple* No. of Cylinders *3* No. of Cranks *3*

Cylinders *12 1/4, 22, 35* Length of Stroke *24* Revs. per minute *112* Dia. of Screw shaft *7 1/2* Material of screw shaft *Iron*

Is the shaft fitted with a continuous liner the whole length of the stern tube *yes* Is the after end of the liner made water tight

propeller boss *yes* If the liner is in more than one length are the joints burned *yes* If the liner does not fit tightly at the part

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *✓* If two

are fitted, is the shaft lapped or protected between the liners *✓* Length of stern bush *36*

as per rule *6.38* Dia. of Crank shaft journals *6.69* Dia. of Crank pin *7* Size of Crank webs *13 3/8 x 4 3/4* Dia. of thrust shaft under

as fitted *6 3/8* Dia. of screw *8-7 1/2* Pitch of Screw *11-0* No. of Blades *4* State whether moveable *No* Total surface *27 1/2 sq. ft*

ed pumps *1* Diameter of ditto *2 1/8* Stroke *24* Can one be overhauled while the other is at work *✓*

ge pumps *1* Diameter of ditto *2 1/8* Stroke *24* Can one be overhauled while the other is at work *✓*

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

Room *Two 2" dia.* In Holds, &c. *Two 2" to slush wells, one 2"*

ore hold. Ejector suction from all bilges & discharge on deck. *Is a separate Donkey Suction fitted in Engine room & size 2 1/2" Ejector*

Injection *1* sizes *3"* Connected to condenser, or to circulating pump *Is a separate Donkey Suction fitted in Engine room & size 2 1/2" Ejector*

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*

connections with the sea direct on the skin of the ship *yes* Are they Valves or Cocks *Both*

placed 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*

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*

are carried through the bunkers *Hold suction* How are they protected *Wood casing*

pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *yes*

bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *yes*

examination of completion of fitting of Sea Connections *6/4/06* of Stern Tube *9/4/06* Screw shaft and Propeller *9/4/06*

new Shaft Tunnel watertight *None* Is it fitted with a watertight door *✓* worked from *✓*

ES, &c.—(Letter for record *(5)* Manufacturers of Steel *Wm Beardmore & Co Ld.*

ating Surface of Boilers *1110 sq. ft* Forced Draft fitted *No* No. and Description of Boilers *One 5 1/2 cyl. Mult.*

Pressure *180 lbs* Tested by hydraulic pressure to *360 lbs* Date of test *11.5.06* No. of Certificate *1472*

boiler be worked separately *✓* Area of fire grate in each boiler *33.25 sq. ft.* No. and Description of Safety Valves to

Two direct spring Area of each valve *3.9"* Pressure to which they are adjusted *185 lbs* Are they fitted with easing gear *yes*

distance between boilers or uptakes and bunkers or woodwork *5"* Mean dia. of boilers *12-6"* Length *10-0"* Material of shell plates *Steel*

1 1/2" Range of tensile strength *29-32 tons* Are the shell plates welded or flanged *No* Descrip. of riveting: cir. seams *S.R. Lap.*

5/8 x 5/8 Rivets Diameter of rivet holes in long. seams *1 1/2"* Pitch of rivets *7"* Lap of plates or width of butt straps *15"*

ies of strength of longitudinal joint rivets *86* Working pressure of shell by rules *185 lbs* Size of manhole in shell *16 x 12"*

compensating ring *7 x 1 1/2"* No. and Description of Furnaces in each boiler *Two plain* Material *Steel* Outside diameter *3-7"*

plain part top *5-10"* Thickness of plates crown *4-9"* Description of longitudinal joint *welded* No. of strengthening rings *✓*

pressure of furnace by the rules *185 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *2 3/32"* Back *1/16"* Top *2 3/32"* Bottom *2 3/32"*

stays to ditto: Sides *9 x 8 1/2"* Back *9 x 8 1/2"* Top *8 3/4 x 8 1/2"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *194 lbs*

of stays *Steel* Diameter at smallest part *1 5/8"* Area supported by each stay *76.5* Working pressure by rules *244 lbs* End plates in steam space:

Steel Thickness *1 3/32"* Pitch of stays *17 1/2" x 17 1/2"* How are stays secured *Nuts & washers* Working pressure by rules *185 lbs* Material of stays *Steel*

at smallest part *6.21* Area supported by each stay *306.25* Working pressure by rules *202 lbs* Material of Front plates at bottom *Steel*

7/8" Material of Lower back plate *Steel* Thickness *1 5/8"* Greatest pitch of stays *12 x 21"* Working pressure of plate by rules *204 lbs*

of tubes *3 1/4"* Pitch of tubes *4 3/4 x 4 5/8"* Material of tube plates *Steel* Thickness: Front *7/8"* Back *7/8"* Mean pitch of stays *9 1/2" x 9 1/4"*

ross wide water spaces *15"* Working pressures by rules *313 lbs* Girders to Chamber tops: Material *Iron* Depth and

of girder at centre *9 x 1 3/4"* Length as per rule *2-8"* Distance apart *8 3/4"* Number and pitch of stays in each *308 1/2"*

pressure by rules *193 lbs* Superheater or Steam chest; how connected to boiler *✓* Can the superheater be shut off and the boiler worked

✓ 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 *✓*

l with rings *✓* Distance between rings *✓* Working pressure by rules *✓* End plates: Thickness *✓* How stayed *✓*

pressure of end plates *✓* Area of safety valves to superheater *✓* Are they fitted with easing gear *✓*

Lloyd's Register Foundation
W 765-0096

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety _____

Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____

If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____

Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____

Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Plates _____

Working pressure of shell by rules _____ 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 _____

Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Stayed by _____

Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— *Two top + two bottom-end connecting rod bolts + nuts. Two main bearing bolts + nuts. One set of coupling bolts + nuts. One set of feed + bilge pump valves. Main + donkey feed check valves. Assorted bolts + nuts + c.*

The foregoing is a correct description,
Charles D. Holmes Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1906: Jan 26, Feb 15, Mar 5, 14, 22, 30 Apr 5, 6, 9, 20, 26, 27 May 10, 11, 18, 24, 25, 28, 31.
 { During erection on board vessel - - } Jun 2, 7.
 Total No. of visits 21

Is the approved plan of main boiler forwarded herewith *R/L No. 17996*

Dates of Examination of principal parts—Cylinders *27/4/06* Slides *10/5/06* 18/5/06 Covers *24/5/06* Pistons *18/5/06* Rods *18/5/06*
 Connecting rods *18/5/06* Crank shaft *24/5/06* Thrust shaft *27/4/06* Tunnel shafts ✓ Screw shaft *5/4/06* Propeller *5/4/06*
 Stern tube *5/4/06* Steam pipes tested *31/5/06* Engine and boiler seatings *6/4/06* Engines holding down bolts *28/5/06*
 Completion of pumping arrangements *2/6/06* Boilers fixed *31/5/06* Engines tried under steam *2/6/06*
 Main boiler safety valves adjusted *2/6/06* Thickness of adjusting washers *F 1/4" A 3/8"*
 Material of Crank shaft *Steel* Identification Mark on Do. *LLOYDS AH 1670 2.1906* Material of Thrust shaft *Iron* Identification Mark on Do. *LLOYDS 245 18.5.06 J.K.*
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. *LLOYDS 245 5.4.06 J.K.*
 Material of Steam Pipes *Solid drawn copper* Test pressure *360 lbs.*

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

The Engines and Boiler of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of + LMC 6, 06 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD *H L.M.C. 6.06.*

R.S. 21.6.06
Eng. 21.6.06

The amount of Entry Fee..	£ 1	:	:	When applied for,
Special ..	£ 10	7	:	18/6/1906
Donkey Boiler Fee ..	£	:	:	When received,
Travelling Expenses (if any) £	:	8	2	29.6.06

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

Committee's Minute **FRI. 22 JUN 1906**
 Assigned *+ L.M.C. 6.06*



R. J. Fisher - R. J. Fisher

Null Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)