

## REPORT ON MACHINERY.

No. 17317

Port of Hull

Received at London Office

19

Date, first Survey July 15<sup>th</sup> Last Survey 8<sup>th</sup> Nov 1905  
(Number of Visits 31)No. in Survey 19<sup>th</sup> at Hull  
Reg. Book. 19<sup>th</sup> on the Steel S. K. PelicanTons { Gross 205  
Net 73

Master Built at Selby By whom built Messrs Buchanan Sons When built 1905

Engines made at } By whom made } Messrs Charles D. Holmes & Co when made } 1905  
Boilers made at } Hull By whom made }

Registered Horse Power 67 Owners Cleithorpes Steam Trawling Co Port belonging to Grimsby

Nom Horse Power as per Section 28 669 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 12" ~ 21" ~ 34" Length of Stroke 24" Revs. per minute 106 Dia. of Screw shaft as per rule 7" Material of Iron  
as fitted 7 1/8" screw shaft  
Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight  
in the propeller boss Yes If the liner is in more than one length are the joints burned burned If the liner does not fit tightly at the part  
between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two  
liners are fitted, is the shaft lapped or protected between the liners  
Dia. of Tunnel shaft as per rule 6.26" Dig. of Crank shaft journals as per rule 6.56" Dia. of Crank pin 6 3/4" Size of Crank webs 12 1/2" x 4 1/2" Dia. of thrust shaft under  
collars 6 3/4" as fitted 6 1/8" Dia. of screw 8" 6" Pitch of screw 11' 0" No. of blades 4 State whether moveable No Total surface 27 ft<sup>2</sup>  
No. of Feed pumps 1 Diameter of ditto 2 1/6" Stroke 24" Can one be overhauled while the other is at work  
No. of Bilge pumps 1 Diameter of ditto 2 1/6" Stroke 24" Can one be overhauled while the other is at work  
No. of Donkey Engines 1 Sizes of Pumps 2 3/4" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room Two 2" In Holds, &c. One each, 2", to each slush  
well, Ejector suction from eng. room bilge slush wells discharge  
No. of bilge injections 1 sizes 3 Connected to condenser, or to circulating pump pump 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 0  
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 Slush well suctions How are they protected wood casing  
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 before launching Is the screw shaft tunnel watertight No  
Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 1110 ft<sup>2</sup> Is forced draft fitted No  
No. and Description of Boilers One cyl. Multi. Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs  
Date of test 25.10.05 Can each boiler be worked separately Area of fire grate in each boiler 31.3 ft<sup>2</sup> No. and Description of safety valves to  
each boiler Two Spring Area of each valve 3.98 ft<sup>2</sup> Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes  
Smallest distance between boilers or uptakes and bunkers or woodwork 6 Mean dia. of boilers 12' 0" Length 10' 0" Material of shell plates Steel  
Thickness 1" Range of tensile strength 29.32 tons Are they welded or flanged Descrip. of riveting: cir. seams L.D. long. seams O.B.S.I.R.  
Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 7" Lap of plates or width of butt straps 15"  
Per centages of strength of longitudinal joint rivets 88.7 Working pressure of shell by rules 186 lbs Size of manhole in shell 16 x 12  
Size of compensating ring 7" x 1" No. and Description of Furnaces in each boiler 2 plain Material Steel Outside diameter 41"  
Length of plain part top 5' 9" Thickness of plates crown 3/4" Description of longitudinal joint welded No. of strengthening rings 0  
bottom 5' 9" bottom 8.5.26 Working pressure of shell by rules 186 lbs Size of manhole in shell 16 x 12  
Working pressure of furnace by the rules 190 lbs Combustion chamber plates: Material Steel Thickness: Sides 1/6" Back 1/6" Top 2 1/32" Bottom 1/6"  
Pitch of stays to ditto: Sides 9 x 8 1/2" Back 9 x 8 1/2" Top 8 x 8 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 201 lbs  
Material of stays Steel Diameter at smallest part 1 3/4" Area supported by each stay 105.78 Working pressure by rules 204 lbs End plates in steam space:  
Material Steel Thickness 1 1/2" Pitch of stays 16 x 16" How are stays secured margin 1 3/4" Screws into both ends Working pressure by rules 196 lbs Material of stays Steel  
Diameter at smallest part 2 1/8" Area supported by each stay 256 ft<sup>2</sup> Working pressure by rules 225 lbs Material of Front plates at bottom Steel  
Thickness 2 1/32" Material of Lower back plate Steel Thickness 1 5/16" Greatest pitch of stays 15" Working pressure of plate by rules 198 lbs  
Diameter of tubes 3 1/4" Pitch of tubes 4 5/8" Material of tube plates Steel Thickness: Front 2 1/32" Back 7/8" Mean pitch of stays 9 1/4"  
Pitch across wide water spaces 15" Working pressures by rules 188 lbs Girders to Chamber tops: Material Iron Depth and  
thickness of girder at centre 8 1/4" x 2" Length as per rule 2' 8 7/8" Distance apart 8 Number and pitch of Stays in each 3 — 8 1/2"  
Working pressure by rules 198 lbs Superheater or Steam chest; how connected to boiler 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—** No. \_\_\_\_\_ 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 in 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 rivets \_\_\_\_\_

Lap of plating \_\_\_\_\_ Per centage of strength of joint \_\_\_\_\_ Rivets \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ No. of Stays to \_\_\_\_\_

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:— Two each top and bottom end connecting rod bolts and nuts, two main bearing bolts and nuts, one set coupling bolts and nuts, one set each air, circulating, feed & bilge pump valves, and a quantity of assorted bolts and nuts.

The foregoing is a correct description,

*Charles D. Holmes* Manufacturer.

Dates { During progress of work in shops - 1905: - July 15, 21, 26, Aug 15, 21, 22, 25, 31, Sep 7, 8, 12, 13, 15, 19, 26, 27 Oct 3, 4, 10, 19, 20, 23, 24, 25, 26, 27, 31 Nov 2, 3, 4, 8 }  
 of Survey { During erection on board vessel - - }  
 while building { Total No. of visits 31 }  
 Is the approved plan of main boiler forwarded herewith Yes

**General Remarks** (State quality of workmanship, opinions as to class, &c.) The machinery and boilers of this vessel have been inspected throughout construction in accordance with the Society's Rules. The materials and workmanship are good. The boilers tested by hydraulic pressure and with the engines placed on board and tested under steam they are now in good order, and safe working condition, and respectfully submitted as being eligible in my opinion to be classed, with the notification of *L.M.C. 11.05* in the Register Book.

It is submitted that this vessel is eligible for THE RECORD *L.M.C. 11.05.*

*11.11.05*  
*11.11.05*

The amount of Entry Fee £ 1 : : : When applied for, 10/11/1905  
 Special .. £ 10 : 1 : :  
 Donkey Boiler Fee .. £ - : - : :  
 Travelling Expenses (if any) £ - : 8 : 2 : When received, 30/11/05

TUES, 14 NOV 1905

Committee's Minute

Assigned

*+ L.M.C. 11.05*

*James Barclay*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.  
 10 11 05



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MACHINERY CERTIFICATE WRITTEN.

Certificate (if required) to be sent to Hull.