

REPORT ON MACHINERY.

No. 17317

NOV 11 1905

Port of Hull

Received at London Office

Date, first Survey July 15th Last Survey 8th Nov 1905

(Number of Visits 31)

No. in Survey 19 at Hull
Reg. Book. 19 on the Steel S. K. Pelican

Gross Tons 205
Net Tons 73

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

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

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

Registered Horse Power 67 Owners Electhorpes Steam Trawling Co Port belonging to Grimby

Nom Horse Power as per Section 28 66.9 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 screw shaft Iron

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 plan Length of stern bush 31"

Dia. of Tunnel shaft as per rule 6.26 Dia. of Crank shaft journals as per rule 6.58 Dia. of Crank pin 6.74 Size of Crank webs 12 3/8" x 4 1/2" Dia. of thrust shaft under

collars 6.74 Dia. of screw 8-6 Pitch of screw 11-0" No. of blades 4 State whether moveable No Total surface 27 sq

No. of Feed pumps 1 Diameter of ditto 2 1/6" Stroke 24" Can one be overhauled while the other is at work 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 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 suction 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 sq Is forced draft fitted No

No. and Description of Boilers One byl 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 sq No. and Description of safety valves to

each boiler Two Spring Area of each valve 3.98 sq 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 D. B. S. J. 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

Working pressure of furnace by the rules 190 lbs Combustion chamber plates: Material Steel Thickness: Sides 1/6" Back 1/6" Top 21/32" 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 1/8" 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" screwed into both ends plates, nut in wasters outside Working pressure by rules 196 lbs Material of stays Steel

Diameter at smallest part 2 1/8" Area supported by each stay 256 sq Working pressure by rules 225 lbs Material of Front plates at bottom Steel

Thickness 27/32" Material of Lower back plate Steel Thickness 15/16" 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 27/32" Back 7/8" Mean pitch of stays 9 1/2"

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

Is a Report also sent on the Hull of the Ship? If not, state whether, and when, one will be sent?

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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 of Survey while building { 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.
 { During erection on board vessel - - } Oct 19, 20, 23, 24, 25, 26, 27, 31 Nov. 2, 3, 4, 8
 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 boiler of this vessel have been inspected throughout construction in accordance with the Society's Rules. The materials and workmanship are good. The boiler 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.*

James Barclay
 11.11.05
 11.11.05

The amount of Entry Fee... £ 1 : : : : When applied for, 10/11/1905
 Special .. £ 10 : 1 : : : :
 Donkey Boiler Fee .. £ - : - : : : When received, 30/11/05
 Travelling Expenses (if any) £ - : 8 : 2 : : : : 1/12/05

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

TUES, 14 NOV 1905

Committee's Minute

Assigned

+ L.M.C. 11.05

Certificate (if required) to be sent to

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

