

REPORT ON MACHINERY.

Port of Hull

SAT. 11 JUN 1898

Received at London Office

No. in Survey held at Hull Date, first Survey Aug 28/97 Last Survey May 25th 1898
 Reg. Book. 3180 on the Steel Steam Trawler Plover (Number of Visits 30)
 Master Hull Built at Hull By whom built Barrie & Lim When built 1898
 Engines made at Hull By whom made Barrie & Lim when made 1898
 Boilers made at Hull By whom made Barrie & Lim when made 1898
 Registered Horse Power 55 Owners Pioneer & S Co Lim Port belonging to Himley
 Nom. Horse Power as per Section 28 57 Is Electric Light fitted No

Tons } Gross 181
 Net 47

ENGINES, &c.—Description of Engines Triple Compound No. of Cylinders Three No. of Cranks Three

Diameter of Cylinders 12' 20' 32' Length of Stroke 23' Revolutions per minute 125 Diameter of Screw shaft 6.62
 Diameter of Tunnel shaft 5.99 as per rule 6.4 as fitted 6.4 Diameter of Crank shaft journals 6 1/2 Diameter of Crank pin 6 1/2 Size of Crank webs 7 1/2 x 4 1/4
 Diameter of screw 8.2 Pitch of screw 11.0 No. of blades 4 State whether moveable - Total surface 24.9 sq ft
 No. of Feed pumps One Diameter of ditto 2 1/2 Stroke 10 Can one be overhauled while the other is at work -
 No. of Bilge pumps One Diameter of ditto 2 1/2 Stroke 10 Can one be overhauled while the other is at work -
 No. of Donkey Engines One Sizes of Pumps 2 1/2 x 5 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room One 2 In Holds, &c. One 2
Section section in the Engine room Bilge and hold and discharge on deck
 No. of bilge injections one size 3/4 Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size 1/2
 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 Yes
 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 Section to forward How are they protected wood cond
 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 Nov 97 Is the screw shaft tunnel watertight In tunnel
 Is it fitted with a watertight door - worked from -

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 580 sq ft Is forced draft fitted No

No. and Description of Boilers One Cylindrical Working Pressure 200 lb Tested by hydraulic pressure to 400 lb
 Date of test 24/2/98 Can each boiler be worked separately - Area of fire grate in each boiler 339 sq ft No. and Description of safety valves to each boiler Two Spring loaded Area of each valve 3.14 sq ft Pressure to which they are adjusted 205 lb Are they fitted with easing gear Yes Smallest distance between boilers or uptakes and bunkers or woodwork 7' Mean diameter of boilers 11.0'
 Length 9.6' Material of shell plates Steel Thickness 1" Description of riveting: circum. seams all on lap long. seams all chip stl
 Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 7 1/2" Lap of plates or width of butt straps 16"
 Per centages of strength of longitudinal joint 87.8% Working pressure of shell by rules 200 lb Size of manhole in shell 16" x 12"
 Size of compensating ring 3/16" x 1" No. and Description of Furnaces in each boiler One Iron Material Steel Outside diameter 42"
 Length of plain part top - bottom - Thickness of plates crown 9/16" bottom - Description of longitudinal joint Welded No. of strengthening rings Compound
 Working pressure of furnace by the rules 210 lb Combustion chamber plates: Material Steel Thickness: Sides 10/16" Back 10/16" Top 10/16" Bottom 10/16"
 Pitch of stays to ditto: Sides 0" Back 7 1/4" Top 7 7/8" If stays are fitted with nuts or riveted heads Anti Working pressure by rules 211 lb
 Material of stays Steel Diameter at smallest part 1 1/4" Area supported by each stay 8 x 7 1/4" Working pressure by rules 200 lb End plates in steam space: Material Steel Thickness 1 1/2" Pitch of stays 15 1/4" How are stays secured all nut Working pressure by rules 206 lb Material of stays Steel
 Diameter at smallest part 2 9/16" Area supported by each stay 15 1/4" x 15" Working pressure by rules 223 lb Material of Front plates at bottom Steel Thickness 2 9/32" Material of Lower back plate Steel Thickness 1 1/4" Greatest pitch of stays 12" Working pressure of plate by rules 200 lb
 Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 2 9/32" Back 1 3/16" Mean pitch of stays 9"
 Pitch across wide water spaces 13 1/4" Working pressures by rules 204 lb Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 6 x 2 1/2" Length as per rule 27 5/8" Distance apart 7 1/2" Number and pitch of Stays in each One 7 7/8"
 Working pressure by rules 200 lb 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— Description *In donkey boiler*

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 _____

Description of riveting long. seams _____ Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____

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:— *The top and bott. In bottom end bott. Two main bearing bolts. One set Coupling bolts. One set Dead Pump Valve one set Bilge Pump Valve. One set Check Valve. Safety Valve Spring etc.*

The vessel efficient with mast and sail as a steamer.

The foregoing is a correct description,

A. E. Seaton
Manufacturer.

Dates of Survey while building

During progress of work in shops—
During erection on board vessel—
Total No. of visits **30**

1897: Aug 28. Sep 15. 25. Oct 18. 22. 29. Nov 5. 26. Dec 3. 6. 13. 1898: Jan 12. 20. 27. 30. Feb 5. 12. 16. 19. 24. Mar 7. 17. 22. Apr 2. 4. 18. 23. May 11. 16. 25.

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

The Machinery and Boilers of this Steam Steamer have been constructed under Official Survey and placed on board in accordance with the Society's Rules they are now in my opinion in safe working condition and the case is respectfully submitted for the Certification + L.M.C. 5.98.

This case is similar in all respects to the Lizzie Hull Report No 11702.

It is submitted that this vessel is eligible to have the notification of L.M.C. 5.98 recorded

J.W.
13/6/98

The amount of Entry Fee... £ 10 : 0 :
Special £ 0 : 11 :
Donkey Boiler Fee £ - : - :
Travelling Expenses (if any) £ - : - :

When applied for, *3/6/98*
When received, *18. 6. 98*

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

Committee's Minute **TUES. 14 JUN 1898**
Assigned

MACHINERY CERTIFICATE WRITTEN.

+ L.M.C. 5.98



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Certificate (if required) to be sent to

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