

REPORT ON MACHINERY.

9736

Port of Hull

Received at London Office 17 1895

No. in Survey held at Hull Date, first Survey Feb 13 Last Survey 31 May 1895

g. Book, on the Steam Trawler "Wren" (Number of Visits 14)

Registered 45 Owners Pioneer S. Johnson & Co Port belonging to Gimsey

Engines made at Hull By whom made Charles C. Sims when made 1895

Boilers made at Hull By whom made Charles C. Sims when made 1895

Registered Horse Power 45 Owners Pioneer S. Johnson & Co Port belonging to Gimsey

Net Horse Power as per Section 28 47.2

Engines, &c.— Description of Engines Triple Comp. Inv & Acting No. of Cylinders Three

Diameter of Cylinders 11" 17" & 30" Length of Stroke 21" Revolutions per minute 130 Diameter of Screw shaft 5 1/2"

Diameter of Tunnel shaft 5 1/2" Diameter of Crank shaft journals 5 1/2" Diameter of Crank pin 5 1/2" Size of Crank webs 6 1/2" x 3 1/2"

Diameter of screw 7.8" Pitch of screw 9.5" No. of blades 4 State whether moveable No Total surface 21 sq ft

No. of Feed pumps one Diameter of ditto 2 1/4" Stroke 10" Can one be overhauled while the other is at work Yes

No. of Bilge pumps one Diameter of ditto 8" Stroke 10" Can one be overhauled while the other is at work No

No. of Donkey Engines one Sizes of Pumps 5" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room one 2' In Holds, &c. one 2'

Is there a Governor with suction in the Engine Bilge Yes Is there a separate donkey suction fitted in Engine room Yes

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room 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 they each fitted with a discharge valve always accessible on the plating of the vessel Yes

Are the pipes carried through the bunkers Yes How are they protected board covered

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 95 Is the screw shaft tunnel watertight Yes

Is it fitted with a watertight door No worked from No

Boilers, &c.— (Letter for record S) Total Heating Surface of Boilers 500 sq ft

No. and Description of Boilers One Cylindrical Hull Working Pressure 160 lb Tested by hydraulic pressure to 320 lb

Date of test 20/4/95 Can each boiler be worked separately No Area of fire grate in each boiler 28 sq ft

No. and Description of safety valves to each boiler Two Area of each valve 3.14 sq in Pressure to which they are adjusted 165 lb

Are they fitted with easing gear Yes Smallest distance between boilers or uptakes and bunkers or woodwork 10"

Mean diameter of boilers 10.0" Length 9.6" Material of shell plates Steel Thickness 27/32

Description of riveting: circum. seams all the way long. seams all the way

Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 6 7/8" Lap of plates or width of butt straps 12 1/2"

Percentage of strength of longitudinal joint rivets 85% Working pressure of shell by rules 160 lb

Size of compensating ring 30 x 20 x 27/32 No. and Description of Furnaces in each boiler two Plain

Material Steel Outside diameter 35" Length of plain part 6.0" Thickness of plates 4 1/2"

Description of longitudinal joint welded No. of strengthening rings — Working pressure of furnace by the rules 161 lb

Combustion chamber plates: Material Steel Thickness: Sides 9 1/2" Back 9 1/2" Top 9 1/2" Bottom 14 1/2"

Pitch of stays to ditto: Sides 8" Back 8 1/2" Top 8" If stays are fitted with nuts or riveted heads Yes

Working pressure by rules 161 lb Material of stays Steel Diameter at smallest part 1 3/4"

Area supported by each stay 5 1/2 x 7" Working pressure by rules 205 lb End plates in steam space: Material Steel

Thickness 29/32" Pitch of stays 15" How are stays secured all nuts Working pressure by rules 163 lb

Material of stays Steel Diameter at smallest part 2 1/2" Area supported by each stay 15 x 14 1/2"

Working pressure by rules 166 lb Material of Front plates at bottom Steel Thickness 27/32"

Material of Lower back plate Steel Thickness 13/16" Greatest pitch of stays 1 1/2" Working pressure of plate by rules 160 lb

Diameter of tubes 3 1/2" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 27/32" Back 10/16"

Mean pitch of stays 9" Pitch across wide water spaces 13 1/4" Working pressures by rules 166 lb

Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 6 x 2" Length as per rule 24"

Distance apart 7 1/2" Number and pitch of Stays in each two 8" Working pressure by rules 168 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 —

Stays — 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 —



HUL 410-0329

DONKEY BOILER— Description *No 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 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 _____ 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 top end bolts. Two bottom end bolts. One main bearing bolt. One set coupling bolts. One set feed pump valve. One set Bilge pump valve. One set check valve. Safety valve spring. One vessel efficient with masts and sails on a trawler.*

The foregoing is a correct description,
A. E. Leaton Manufacturer.

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

The Machinery and Boiler of the Steam Trawler have been constructed under Special 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 ratification + L.M. 5.95. in the Register Book.

It is submitted that this vessel is eligible for **THE RECORD + L.M.C. 5,95**

A.P.S.E.
13.6.95

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

Certificate (if required) to be sent to _____
 The amount of Entry Fee.. £ 1 : 0 :
 Special £ 0 : 0 :
 Donkey Boiler Fee £ ✓ : :
 Travelling Expenses (if any) £ ✓ : :
 When applied for, 5/6/18.95
 When received, 16/7.18.95

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

Committee's Minute _____
 Assigned _____
 FRI 14 JUN 1895
 + L.M.C. 5,95

VESSEL
 ** These particulars
 Signal Letters (Y) _____
 Official Number _____
 10420
 Date, and Port of Birth or Built. _____
 Number of Decks _____
 Number of Masts _____
 Number of Galleries _____
 Head _____
 Framework and deck vessel _____
 Number of Bulkheads _____
 Number of water tanks and their capacity _____
 Total to quarter the at side amidships _____
 No. of Engines _____
 Description _____
 Triple Direct Acting
 three inverted
 Boiler
 Number _____
 Iron or Steel _____
 Pressure when laid down _____
 Gross Tonnage _____
 Under Tonnage Deck _____
 Closed-in spaces above _____
 Space or spaces below _____
 Poop _____
 Forecastle _____
 Round House _____
 Other closed-in spaces _____
 Spaces for _____
 Gross Tonnage _____
 Deductions, as per _____
 Registered _____
 Name of Master _____
 No. of Owners _____
 Name, Residence, and _____
 Pioneer
 George G
 Dated _____ 31
 B & L (439w)—41262—100



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