

REPORT ON MACHINERY.

9736

Port of Hull

Received at London Office 17th May 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. Shipping Co Port belonging to Grimby

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. Shipping Co Port belonging to Grimby

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 h 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 ✓

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

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 suction with suction in the Engine Bilge & discharge well and discharge on deck

No. of bilge injections one sizes 3 1/2" Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size 4" gauge

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

That pipes are carried through the bunkers friction to forward 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 how seen 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 800 sq ft

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

Date of test 29/4/95 Can each boiler be worked separately — Area of fire grate in each boiler 28 sq ft No. and Description of safety valves to

each boiler Two lifting loaded Area of each valve 3.14 sq ft 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 in lap long. seams all lap all

Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 7/8" Lap of plates or width of butt straps 12 1/2"

Percentage of strength of longitudinal joint 85% Working pressure of shell by rules 160 lb Size of manhole in shell 16" x 12"

Size of compensating ring 30" x 28" 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 9/16" Back 9/16" Top 9/16" Bottom 1 1/16"

Pitch of stays to ditto: Sides 8" Back 8 1/2" Top 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 161 lb

Material of stays steel Diameter at smallest part 1 3/8" 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 164 lb Material of Front plates at bottom steel

Thickness 27/32" Material of Lower back plate steel Thickness 1 3/16" 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 steel 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 162 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 —

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 *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 or
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 _____
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 top end bolts. One bottom end bolt. One main bearing bolt. One set coupling bolt. One set feed pump valve. One set Bilge pump valve. One set check valve. Safety valve spring.*
The vessel efficient with masts and sails as a drawler.

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 this 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 in the Notification + L.M.C. 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

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, 5/6/95
When received, 16/7/95

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

VES

** These particulars
Signal Letters (if)

Official Number

10420

Date, and Port

British or
Built.

ish

ber of Decks

ber of Masts

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ad

alleries

Head

Framework and des

vessel

Number of Bulkhead

Number of water ba

and their capacity

Total to quarter the

at side amidships

No. of

Engines

Descript

Triple

Direct

Boiler

Number

Iron or Steel

Pressure when lo

GROSS

Under Tonnage Dec

Closed-in spaces abov

Space or spaces be

Poop

Forecastle

Round House

Other closed-in sp

Spaces for

Gross Ton

Deductions, as per C

Registered

Name of Mas

No. of Owners

Name, Residence, an

Pioneer

Dated

31

B & L (439w)—41262—100



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