

REPORT ON MACHINERY.

8648

Port of Hull

Received at London Office SAT 10 JUN 1893

No. in Survey held at Hull

Date, first Survey Near 3rd Last Survey June 1st 1893

Reg. Book.

(Number of Visits 11)

Command on the Steam Trawler Swallow

Tons { Gross 134
Net 47

Master Hull

By whom built Carlisle Co Lim

When built 1893

Engines made at Hull

By whom made Carlisle Co Lim

when made 1893

Boilers made at Hull

By whom made Carlisle Co Lim

when made 1893

Registered Horse Power 45 Owners James Wm. Johnson Co L^{td}

Port belonging to Guimby

Tom. Horse Power as per Section 28 47

ENGINES, &c. — Description of Engines Triple Compound Inverted Q.A No. of Cylinders Three

Diameter of Cylinders 11" 17" & 30" Length of Stroke 21" Revolutions per minute 120 Diameter of Screw shaft as per rule 5.304
as fitted 5 3/8"

Diameter of Tunnel shaft as per rule 5.01 Diameter of Crank shaft journals 5 3/8" Diameter of Crank pin 5 3/8" Size of Crank webs 6 1/2" x 3 7/8"
as fitted 5 1/2"

Diameter of screw 4.8" Pitch of screw 9.3" No. of blades 4 State whether moveable No Total surface 21.09 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 3" Stroke 10 Can one be overhauled while the other is at work -

No. of Donkey Engines One Sizes of Pumps 2" x 4" duplex No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room One 2" In Holds, &c. One 2" flush well one 3"

Ejector with suction in Engine room bilge & flush well and discharge on deck

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

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 suction to forward 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 Nov 92 Is the screw shaft tunnel watertight No 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 built Working Pressure 160 lb Tested by hydraulic pressure to 320 lb

Date of test 4/5/93 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 Spring loaded 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 8" 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 strip all

Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 6 7/8" Lap of plates or width of butt straps 12 3/4"

Per centages of strength of longitudinal joint rivets 85% Working pressure of shell by rules 160 lb Size of manhole in shell 16" x 12"
plate 82.72%

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 top 6.5" Thickness of plates crown 41/64" Description of longitudinal joint welded No. of strengthening rings none
bottom 6.8" bottom 41/64"

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 10/16"

Pitch of stays to ditto: Sides 8 1/4" Back 8" 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 3/8" Area supported by each stay 8 1/4" x 8" Working pressure by rules 179 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 166 lb Material of stays Steel

Diameter at smallest part 2 1/4" Area supported by each stay 15" x 14 1/2" Working pressure by rules 165 lb Material of Front plates at bottom Steel

Thickness 27/32" Material of Lower back plate Steel Thickness 10/16" Greatest pitch of stays 8" Working pressure of plate by rules 160 lb

Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 27/32" Back 27/32" 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 15 1/16" Length as per rule 25" Distance apart 7 1/2" Number and pitch of Stays in each 2 - 8"

Working pressure by rules 191 lb Superheater or Steam chest; how connected to boiler - Can the superheater be shut off and the boiler worked

separately -

holes Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

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 *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. _____

Plates _____

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 top end bolts. Two bottom end bolts. Two main beam bolts. One set coupling bolts. One set Dead Pump valves. One set Bilge pump valves. Set check valves. Safety valve spring.*

EARLE'S
SHIPBUILDING & ENGINEERING CO, LIMITED
 The foregoing is a correct description,
A. E. Seaton 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 for the notification **L.M.C. 6-93** in the Register Book.*

It is submitted that
 this vessel is eligible for
THE RECORD + L.M.C. 6-93

W.A.
 10-6-93

[Large blue handwritten signature]

Certificate (if required) to be sent to *The Surgeon - Hull*

The amount of Entry Fee..	£ 1 : -	When applied for,
Special	£ 8 : -	9/6/1893
Donkey Boiler Fee .. .	£	When received,
Travelling Expenses (if any) £		25/1893

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

Committee's Minute **TUES. 13 JUN 1893**

Assigned

+ L.M.C. 6, 93

MACHINERY CERTIFICATE
 WRITTEN
 7/93



© 2019
 Lloyd's Register
 Foundation

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