

REPORT ON MACHINERY.

9209

Port of Shull

MON. 10 SEP 1894

Received at London Office

No. in Survey held at Shull
Reg. Book.

Date, first Survey May. 17th Last Survey Sep. 7th 1894
(Number of Visits 21)

Master Steam Trawler Swift

Gross 136
Net 45
Tons

Built at Shull By whom built Carles & Lim

When built 1894

Engines made at Shull By whom made Carles & Lim

when made 1894

Boilers made at Shull By whom made Carles & Lim

when made 1894

Registered Horse Power 45 Owners Pioneer Steam Fishing Co Port belonging to Grimsby

Nom. Horse Power as per Section 28 47

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

Diameter of Cylinders 11" 14" 30" Length of Stroke 21" Revolutions per minute _____ Diameter of Screw shaft as per rule 5.307
as fitted 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 1/2" x 3 1/2"
as fitted 5 1/8"

Diameter of screw 7.8" Pitch of screw 9.5" No. of blades 4 State whether moveable No Total surface 2129 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 3 x 6" No. and size of Suctions connected to both Bilge and Donkey pumps _____

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

Suction with suction in the Engine Bilge & flush till and discharge in the

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

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 board casid

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 and now Is the screw shaft tunnel watertight in tunnel

Is it fitted with a watertight door ✓ worked from ✓

OILERS, &c. — (Letter for record S) Total Heating Surface of Boilers 800 sq ft

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

Date of test 23/7/94 Can each boiler be worked separately ✓ Area of fire grate in each boiler 280 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 16 Are they fitted with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork 9" Mean diameter of boilers 10:0

Length 9:6 Material of shell plates Steel Thickness 27/32 Description of riveting: circum. seams all on lap long. seams all chop all

Diameter of rivet holes in long. seams 13/16" Pitch of rivets 6 7/8" Lap of plates or width of butt straps 12 3/4"

Per centages of strength of longitudinal joint 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 top 6:0 Thickness of plates crown 4 1/16" Description of longitudinal joint welded No. of strengthening rings ✓
bottom 6:3 bottom 4 1/16"

Working pressure of furnace by the rules 160 lb Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 11/16"

Pitch of stays to ditto: Sides 8" Back 8 1/4" Top 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 160 lb

Material of stays Steel Diameter at smallest part 1 3/8" Area supported by each stay 8 1/2" x 8" Working pressure by rules 149 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 160 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 13/16" Greatest pitch of stays 12" Working pressure of plate by rules 160 lb

Diameter of tubes 3 1/4" Pitch of tubes 14 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 160 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 rivets _____

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 _____

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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 can 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 _____ 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:— *No top end bolts. No bottom end bolts. No main bearing bolts. One set coupling bolts. One set Dead pump valves. One set Bilge pump valves. Set Check valves. Safety valve spring.*

The vessel efficient with masts and sails as a Steamer

The foregoing is a correct description,
A. S. Leam Manufacturer.

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

The Machinery and Boiler of this Steam Steamer 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. 9-94 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 9-94

*A R S L
10-9-94*

[Large red signature]

Certificate (if required) to be sent to *Hull*

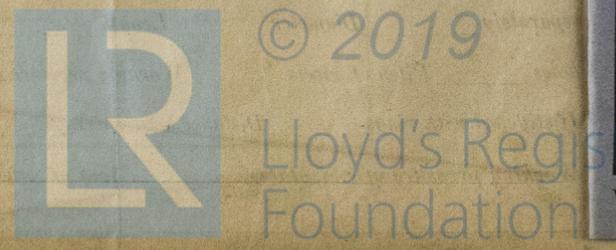
The amount of Entry Fee..	£ 1 : 0 :	When applied for, <i>2/9/18-94</i>
Special	£ 0 : 0 :	
Donkey Boiler Fee	£ ✓ : :	When received, <i>29.10.94</i>
Travelling Expenses (if any) £ ✓ : :		

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

MACHINERY CERTIFICATE WRITTEN.

Committee's Minute **TUES. 11 SEP 1894**

Assigned *+ L.M.C. 9-94*



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

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