

REPORT ON MACHINERY.

10097

Port of Null

FRI. 22 NOV 1895

Received at London Office

No. in Survey held at NullDate, first Survey July 11thLast Survey Nov. 11th

Reg. Book.

(Number of Visits 20)

3 Supp on the

Iron Steam Trawler "Nomadic"Tons { Gross 135Net 44

Master

Built at NullBy whom built Barrie & SonWhen built 1895Engines made at NullBy whom made Barrie & Sonwhen made 1895Boilers made at NullBy whom made Barrie & Sonwhen made 1895Registered Horse Power 45Owners Grimby Steam P. CoPort belonging to GrimbyNom. Horse Power as per Section 28 47

ENGINES, &c.—

Description of Engines Triple Comp. Inv & ANo. of Cylinders ThreeDiameter of Cylinders 14. 17. 30Length of Stroke 21Revolutions per minute 130Diameter of Screw shaft 5.41as per rule 5.41Diameter of Tunnel shaft 5.41as per rule 5.41Diameter of Crank shaft journals 5.41Diameter of Crank pin 5.41Size of Crank webs 7 x 35/16Diameter of screw 7.8Pitch of screw 9.3No. of blades 14State whether moveable hTotal surface 21 sq ftNo. of Feed pumps oneDiameter of ditto 2 1/2Stroke 10Can one be overhauled while the other is at work -No. of Bilge pumps oneDiameter of ditto 2 1/2Stroke 10Can one be overhauled while the other is at work -No. of Donkey Engines oneSizes of Pumps 3 x 6

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room one 2In Holds, &c. one 2Engine with suction in Engine Bilge and discharge on deckNo. of bilge injections onesizes 3 3/4Connected to condenser, or to circulating pump pumpsAre all the bilge suction pipes fitted with roses yesAre the roses in Engine room always accessible yesAre the sluices on Engine room bulkheads always accessible yesAre all connections with the sea direct on the skin of the ship yesAre they Valves or Cocks bothAre they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yesAre the discharge pipes above or below the deep water line aboveAre they each fitted with a discharge valve always accessible on the plating of the vessel yesAre the blow off cocks fitted with a spigot and brass covering plate yesWhat pipes are carried through the bunkers suction to forwardHow are they protected wood casedAre all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times yesAre the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yesWhen were stern tube, propeller, screw shaft, and all connections examined in dry dock Nov 1895Is the screw shaft tunnel watertight in tunnelIs it fitted with a watertight door -worked from -

BOILERS, &c.—

(Letter for record S)Total Heating Surface of Boilers 500 sq ftNo. and Description of Boilers One Cylindrical InvertWorking Pressure 170 lbTested by hydraulic pressure to 340 lbDate of test 21/9/95Can 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 loadedArea of each valve 3.14 sq ftPressure to which they are adjusted 175 lb

Are they fitted

with easing gear yesSmallest distance between boilers or uptakes and bunkers or woodwork 8"Mean diameter of boilers 10.0"Length 9.6'Material of shell plates SteelThickness 29/32Description of riveting: circum. seams all in lap long. seams all chep allDiameter of rivet holes in long. seams 1 1/4"Pitch of rivets 6 7/8"Lap of plates or width of butt straps 13 1/2"

Per centages of strength of longitudinal joint

rivets 84.8%Working pressure of shell by rules 170 lbSize of manhole in shell 16" x 12"Size of compensating ring 28" x 29/32No. and Description of Furnaces in each boiler two PlainMaterial SteelOutside diameter 35"Length of plain part 6.0"Thickness of plates 1 1/4"Description of longitudinal joint weldedNo. of strengthening rings -Working pressure of furnace by the rules 172 lbCombustion chamber plates: Material SteelThickness: Sides 9/16"Back 9/16"Top 9/16"Bottom 29/32Pitch of stays to ditto: Sides 8"Back 8"Top 8"If stays are fitted with nuts or riveted heads bothWorking pressure by rules 171 lbMaterial of stays SteelDiameter at smallest part 1 3/4"Area supported by each stay 8.8"Working pressure by rules 175 lb

End plates in steam space:

Material SteelThickness 15/16"Pitch of stays 15"How are stays secured all nutsWorking pressure by rules 175 lbMaterial of stays SteelDiameter at smallest part 2 9/16"Area supported by each stay 15.145"Working pressure by rules 174 lbMaterial of Front plates at bottom SteelThickness 14/16"Material of Lower back plate SteelThickness 13/16"Greatest pitch of stays 14"Working pressure of plate by rules 170 lbDiameter of tubes 3 1/4"Pitch of tubes 4 1/2"Material of tube plates SteelThickness: Front 14/16"Back 10/16"Mean pitch of stays 9"Pitch across wide water spaces 13 1/4"Working pressures by rules 179 lbGirders to Chamber tops: Material Steel

Depth and

thickness of girder at centre 6 x 2 1/4"Length as per rule 27'Distance apart 7 1/2'Number and pitch of Stays in each two 8"Working pressure by rules 173 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 *A 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:— *The top end bolts. The bottom end bolts. The main bearing bolts. One set coupling bolts. One set Dead pump valves. One set Bilge pump valves. One set Check valves & Safety Valve opening the Vessel efficient with Masts and sails as a Hawker.*

The foregoing is a correct description,

A. E. Leatman Manufacturer.

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

The Machinery and Boiler of this Steam Hawker 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. 11.95. in the Register Book.

It is submitted that this vessel is eligible for THE RECORD.

L.M.C. 11.95

Eng.

22.11.95

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

The amount of Entry Fee.	£	1 : 0 : 0	When applied for, 21/11/1895 When received, 2/12/95
Special	£	0 : 0 : 0	
Donkey Boiler Fee	£	- : - : -	
Travelling Expenses (if any) £	-	- : - : -	

Eng.

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

Committee's Minute

Assigned

TUES. 26 NOV 1895

+ L.M.C. 11.95



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