

REPORT ON MACHINERY.

No.

9023

Port of Hull

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No. in Survey held at Hull Date, first Survey Jan 10th Last Survey May 25th 1894
 Reg. Book. Hull (Number of Visits 16)
 Name of the Iron Steam Trawler Uganda Tons ^{Gross} 131 _{Net} 46
 Master Hull Built at Hull By whom built Cook Welton & Gemmell When built 1894
 Engines made at Hull By whom made Carles Co Lim when made 1894
 Boilers made at Hull By whom made Carles Co Lim when made 1894
 Registered Horse Power 44 Owners Grimby Union S. S. Co Ltd Port belonging to Grimby
 Nom. Horse Power as per Section 28 47

ENGINES, &c.— Description of Engines Triple Compound Inverted S A No. of Cylinders Three
 Diameter of Cylinders 11. 14. 7 30" Length of Stroke 21" Revolutions per minute _____ Diameter of Screw shaft as per rule 5.304"
as fitted 5.01 Diameter of Tunnel shaft as fitted 5.8" 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 x 6 1/2 x 3 1/2"
 Diameter of screw 4:5" Pitch of screw 9:3" No. of blades 4 State whether moveable No Total surface 21 sq ft
 No. of Feed pumps One Diameter of ditto 2" 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"
and hold
3" Ejector with suction in the Engine Bilge and discharge on deck
 No. of bilge injections One sizes 3 1/2" Connected to condenser, or to circulating pump ump Is a separate donkey suction fitted in Engine room 8" 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 cased
 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 Non New 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 Hull Working Pressure 160 lb. Tested by hydraulic pressure to 320 lb
 Date of test 2-4-94 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" Pressure to which they are adjusted 165 Are they fitted
 with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork 8" Mean diameter of boilers 16' 0"
 Length 9' 6" Material of shell plates Steel Thickness 2 1/32" Description of riveting: circum. seams all in lap long. seams all in strap 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 1/4"
 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 2 1/32" No. and Description of Furnaces in each boiler Two Plain Material Steel Outside diameter 35"
 Length of plain part top 6' 2" Thickness of plates 4 1/16" Description of longitudinal joint Welded No. of strengthening rings ✓
bottom 6' 5" 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 Nuts Working pressure by rules 161 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 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 2 1/32" 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 2 1/32" Back 2 1/32" 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' 19/16" Length as per rule 25" Distance apart 7 1/2" Number and pitch of Stays in each Two 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 _____ 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 _____

HUL408-0309

Lloyd's Register Foundation

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:— *The top end bolts. The bottom end bolts. The main bearing bolts. One set coupling bolts. One set feed pump valves. One set Bilge pump valves. One set Check valves and Safety valve spring*

The vessel efficient with masts and sails as a Hawker.

The foregoing is a correct description,
 EARLES SHIPBUILDING & ENGINEERING CO., LIMITED
 Manufacturer.

A. R. Sealin

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 5. 94. in the Register Book.

It is submitted that
 this vessel is eligible for
 THE RECORD + L M C 5, 94

J. R. J. R.
1-6-94

MACHINERY CERTIFICATE
 WRITTEN

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

The amount of Entry Fee..	£ 1 : 0 :	When applied for, 30/5/18.94
Special	£ 0 : 0 :	
Donkey Boiler Fee	£ :	When received, 07/7/94
Travelling Expenses (if any)	£ :	

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

Committee's Minute

TUES. 5 JUN 1894

Assigned

+ L M C 5, 94



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