

REPORT ON MACHINERY.

No.

9023

Port of *Hull*

Received at London Office

FRI 1 JUN 1894

No. in Survey held at *Hull*
Reg. Book.

Date, first Survey *Jan 10th* Last Survey *May 25th* 1894

(Number of Visits *16*)

11 on the *Iron Steam Trawler Uganda*

Tons { Gross *131*
Net *46*

Master Built at *Hull* By whom built *Cook Welton Hemmell* When built *1894*

Engines made at *Hull* By whom made *Charles G. Lim* when made *1894*

Boilers made at *Hull* By whom made *Charles G. Lim* when made *1894*

Registered Horse Power *44* Owners *Grimby Union S. & Co Ltd* Port belonging to *Grimby*

Nom. Horse Power as per Section 28 *47*

ENGINES, &c.— Description of Engines *Triple Compound Inverted & A* No. of Cylinders *Three*
Diameter of Cylinders *11" 14" & 20"* Length of Stroke *21"* Revolutions per minute _____ Diameter of Screw shaft *as per rule 5.304"*
as fitted 5.01 Diameter of Tunnel shaft *5 1/8"* 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"*
as fitted 5 1/8" Diameter of screw *7:5"* 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 *pump* 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 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 Invert* 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"* 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 lap*
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 *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 *crown 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 1/16"* Back *9 1/16"* Top *9 1/16"* Bottom *10 1/16"*
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 1/4" x 8"* Working pressure by rules *149 lb* End plates in steam space:
Material *Steel* Thickness *29 3/32"* 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 1/16"* 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" x 9 1/4" x 25"* 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
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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:— *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,

SHIPBUILDING & ENGINEERING CO., LIMITED

Manufacturer.

A. R. Leath

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 accord-
-ance 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

A R L
1-6-94

MACHINERY CERTIFICATE
WRITTEN.

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

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

James Innes
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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