

Uthmaniyah 1084 Boilers

FRI. 10 SEP 1897

No. 5373

REPORT ON MACHINERY.

Port of **NEWCASTLE-ON-TYNE**

Received at London Office

No. in Survey held at **South Shields** Date, first Survey **5th March** Last Survey **July 1897**
Reg. Book. **S.S. ROVER** (Number of Visits)

on the **Main Boiler of the Blyth Cooperative Co. 9036 S/S** Tons { Gross
Net

Master Built at By whom built When built

Engines made at By whom made when made

Boilers made at **South Shields** By whom made **J. Y. Uthmaniyah & Co.** when made **1894-7.**

Registered Horse Power Owners Port belonging to

Nom. Horse Power as per Section 28 Is Electric Light fitted

ENGINES, &c.—Description of Engines

Diameter of Cylinders	Length of Stroke	Revolutions per minute	Diameter of Screw shaft	No. of Cranks
as per rule			as per rule	
Diameter of Tunnel shaft	Diameter of Crank shaft journals	Diameter of Crank pin	as fitted	Size of Crank webs
as fitted				
Diameter of screw	Pitch of screw	No. of blades	State whether moveable	Total surface
No. of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work	
No. of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work	
No. of Donkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps		
In Engine Room	In Holds, &c.			
No. of bilge injections	sizes	Connected to condenser, or to circulating pump	Is a separate donkey suction fitted in Engine room & size	
Are all the bilge suction pipes fitted with roses	Are the roses in Engine room always accessible	Are the sluices on Engine room bulkheads always accessible		
Are all connections with the sea direct on the skin of the ship	Are they Valves or Cocks		Are the discharge pipes above or below the deep water line	
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates	Are the blow off cocks fitted with a spigot and brass covering plate			
Are they each fitted with a discharge valve always accessible on the plating of the vessel	How are they protected			
What pipes are carried through the bunkers	Is the screw shaft tunnel watertight			
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times	worked from			
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges	Is the screw shaft tunnel watertight			
When were stern tube, propeller, screw shaft, and all connections examined in dry dock	worked from			

BOILERS, &c.—

(Letter for record **S**) Total Heating Surface of Boilers **687 sq ft** Is forced draft fitted

No. and Description of Boilers **One 1st Single Ended** Working Pressure **180 lbs** Tested by hydraulic pressure to **260 lbs**

Date of test **9/4/97** Can each boiler be worked separately **-** Area of fire grate in each boiler **-** No. and Description of safety valves to each boiler **-** Area of each valve **-** Pressure to which they are adjusted **-** Are they fitted with easing gear **-** Smallest distance between boilers or uptakes and bunkers or woodwork **-** Mean diameter of boilers **8'-5 3/16"**

Length **9'-0"** Material of shell plates **Steel** Thickness **13/16"** Description of riveting: circum. seams **lap 2 1/2 in long. seams lap 3 in**

Diameter of rivet holes in long. seams **1 1/4"** Pitch of rivets **5"** Lap of plates or width of butt straps **8 3/4"**

Percentage of strength of longitudinal joint **76** Working pressure of shell by rules **135 lbs** Size of manhole in shell **12" x 16"**

Size of compensating ring **7 x 13 1/2"** No. and Description of Furnaces in each boiler **2 plain** Material **Steel** Outside diameter **36"**

Length of plain part **5'-7 1/2"** Thickness of plates **19/32** Description of longitudinal joint **single riv lap** No. of strengthening rings **none**

Working pressure of furnace by the rules **153** Combustion chamber plates: Material **Steel** Thickness: Sides **1 1/2"** Back **1 1/2"** Top **1 1/2"** Bottom **2 1/2"**

Pitch of stays to ditto: Sides **9 1/2 x 4** Back **9 1/2** Top **rad** If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **135**

Material of stays **Steel** Diameter at smallest part **1 1/2"** Area supported by each stay **8'** Working pressure by rules **138** End plates in steam space: Material **Steel** Thickness **2 3/4"** Pitch of stays **19 1/2 x 1 1/4"** How are stays secured **DRM** Working pressure by rules **132** Material of stays **Steel**

Diameter at smallest part **2 3/4"** Area supported by each stay **3940'** Working pressure by rules **130** Material of Front plates at bottom **Steel**

Thickness **1 1/2"** Material of Lower back plate **Steel** Thickness **3/4"** Greatest pitch of stays **12" x 9 1/2"** Working pressure of plate by rules **135 lbs**

Diameter of tubes **3 1/2"** Pitch of tubes **4 3/8 x 4 3/4"** Material of tube plates **Steel** Thickness: Front **29/32** Back **23/32** Mean pitch of stays **11'-5"**

Pitch across wide water spaces **1 1/2"** Working pressures by rules **150** Girders to Chamber tops: Material **Rad** Depth and thickness of girder at centre **-** Length as per rule **-** Distance apart **-** Number and pitch of Stays in each **-**

Working pressure by rules **-** Superheater **-** Steam chest; how connected to boiler **over** Can the superheater be shut off and the boiler worked separately **-** Diameter **3'-0"** Length **3'-9"** Thickness of shell plates **9/16"** Material **Steel** Description of longitudinal joint **DRM** Diam. of rivets **7/8"** Pitch of rivets **3"** Working pressure of shell by rules **143 lbs** Diameter of flue **-** Material of flue plates **-** Thickness **-**

Stiffened with rings **-** Distance between rings **-** Working pressure by rules **-** End plates: Thickness **9/16"** How stayed **rad**

Working pressure of end plates **109 lbs** Area of safety valves to superheater **-** Are they fitted with easing gear **-**



DONKEY BOILER— Description

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 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 foregoing is a correct description,

Jos. G. Eltringham Manufacturer of Boilers
 - 1897 - Mar 5 11 29 April 12 15 27 May 3 18 29 June 14 18 July 9 16

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - -
 Total No. of visits 13

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

This main boiler has been built under special survey and has been fitted on the above vessel. The materials and workmanship are good. The boiler has been subject to test by hydraulic pressure to 260 lbs per sq in in my presence and was found sound and tight.

This Boiler appears to have been constructed under special survey; but as it does not appear to be intended for a closed vessel it is submitted that no further action need be taken.

This boiler has now been put on board the screw tug "Charles" at Amsterdam Jan 1903. The tubes were removed & boiler was examined by the Surveyors who state boiler is in good condition with very little signs of wear. It was tested to 220 & found tight.

The amount of Entry Fee... £ : : When applied for
 Special £ 2 : 5 : 9 9 18 97
 Donkey Boiler Fee £ : : Which received 17/9/97
 Travelling Expenses (if any) £ : : 15/9/97

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

Committee's Minute

Assigned

not for Council



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