

Index Rpt No 19397

pt. 5.

# REPORT ON BOILERS.

No. 11997

THU 13 JUN 1907  
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Port of Leith  
 Received at London Office  
 No. in Survey held at Swanmouth Date, first Survey 24th April Last Survey 24th May 1907  
 Reg. Book. Cottingham (Number of Visits 2)  
 on the Miss York S 13 103 Tons } Gross  
 } Net  
 Master Goole Built at Goole By whom built Goole S. B. R. Co When built 1907  
 Engines made at Sunderland By whom made Messrs when made 1907  
 Boilers made at By whom made McColl Pollock when made 1907  
 Registered Horse Power \_\_\_\_\_ Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

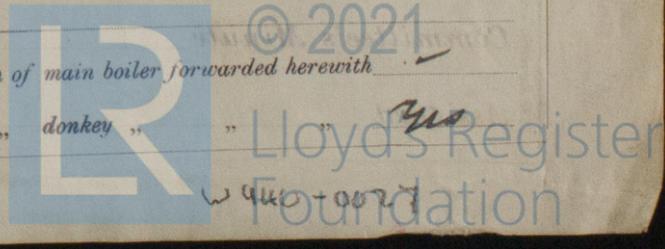
Letter for record \_\_\_\_\_ ) Total Heating Surface of Boilers \_\_\_\_\_ Is forced draft fitted \_\_\_\_\_ No. and Description of  
 boilers \_\_\_\_\_ Working Pressure \_\_\_\_\_ Tested by hydraulic pressure to \_\_\_\_\_ Date of test \_\_\_\_\_  
 No. of Certificate \_\_\_\_\_ Can each boiler be 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 \_\_\_\_\_ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler \_\_\_\_\_  
 Smallest distance between boilers or uptakes and bunkers or woodwork \_\_\_\_\_ Mean dia. of boilers \_\_\_\_\_ Length \_\_\_\_\_  
 Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_ Range of tensile strength \_\_\_\_\_ Are the shell plates welded or flanged \_\_\_\_\_  
 Descrip. of riveting: cir. seams \_\_\_\_\_ long. seams \_\_\_\_\_ Diameter of rivet holes in long. seams \_\_\_\_\_ Pitch of rivets \_\_\_\_\_  
 Lap of plates or width of butt straps \_\_\_\_\_ Per centages of strength of longitudinal joint \_\_\_\_\_ Working pressure of shell by  
 rules \_\_\_\_\_ Size of manhole in shell \_\_\_\_\_ Size of compensating ring \_\_\_\_\_ No. and Description of Furnaces in each  
 boiler \_\_\_\_\_ Material \_\_\_\_\_ Outside diameter \_\_\_\_\_ Length of plain part \_\_\_\_\_ Thickness of plates \_\_\_\_\_  
 Description of longitudinal joint \_\_\_\_\_ No. of strengthening rings \_\_\_\_\_ Working pressure of furnace by the rules \_\_\_\_\_ Combustion chamber  
 plates: Material \_\_\_\_\_ Thickness: Sides \_\_\_\_\_ Back \_\_\_\_\_ Top \_\_\_\_\_ Bottom \_\_\_\_\_ Pitch of stays to ditto: Sides \_\_\_\_\_ Back \_\_\_\_\_  
 Top \_\_\_\_\_ If stays are fitted with nuts or riveted heads \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Material of stays \_\_\_\_\_ Diameter at  
 smallest part \_\_\_\_\_ Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ End plates in steam space: Material \_\_\_\_\_ Thickness \_\_\_\_\_  
 Dish of stays \_\_\_\_\_ How are stays secured \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Material of stays \_\_\_\_\_ Diameter at smallest part \_\_\_\_\_  
 Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Material of Front plates at bottom \_\_\_\_\_ Thickness \_\_\_\_\_ Material of  
 Lower back plate \_\_\_\_\_ Thickness \_\_\_\_\_ Greatest pitch of stays \_\_\_\_\_ Working pressure of plate by rules \_\_\_\_\_ Diameter of tubes \_\_\_\_\_  
 Pitch of tubes \_\_\_\_\_ Material of tube plates \_\_\_\_\_ Thickness: Front \_\_\_\_\_ Back \_\_\_\_\_ Mean pitch of stays \_\_\_\_\_ Pitch across wide  
 water spaces \_\_\_\_\_ Working pressures by rules \_\_\_\_\_ Girders to Chamber tops: Material \_\_\_\_\_ 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 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 \_\_\_\_\_

**VERTICAL DONKEY BOILER**— No. one Description Vertical Manufacturers of steel G. Smith & Co  
 Made at Swanmouth By whom made Geo Black & Sons When made 24/5/07 Where fixed in Stockhold  
 Working pressure 100 tested by hydraulic pressure to 200 No. of Certificate 627 Fire grate area 17 Description of safety valves Spring  
 No. of safety valves 1 Area of each 8.29 Pressure to which they are adjusted 90 lbs If fitted with easing gear Yes If steam from main boilers can  
 enter the donkey boiler No Dia. of donkey boiler 5-6 Length 11-0 Material of shell plates S Thickness 7/16 Range of tensile  
 strength 27-32 Descrip. of riveting long. seams Lap both Dia. of rivet holes 13/16 Whether punched or drilled dr. Pitch of rivets 3 1/2  
 Lap of plating 5/2 Per centage of strength of joint \_\_\_\_\_ Rivets 83 Working pressure of shell by rules 118 Thickness of shell crown plates 9/16  
 Radius of do. 4-9 No. of Stays to do. \_\_\_\_\_ Dia. of stays \_\_\_\_\_ Diameter of furnace Top 4-3 Bottom 4-10 Length of furnace 6-0  
 Thickness of furnace plates \_\_\_\_\_ Description of joint Lap simple Working pressure of furnace by rules 102 Thickness of furnace crown  
 plates 5/8 Stayed by Dished 4-9 Diameter of uptake 14 Thickness of uptake plates 3/8 Thickness of water tubes 3/8

The foregoing is a correct description,  
Geo Black & Sons Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1907 Apr 27 - May 6, 24.  
 { During erection on board vessel - - - }  
 Total No. of visits 3.

Is the approved plan of main boiler forwarded herewith \_\_\_\_\_  
 " " " donkey " " \_\_\_\_\_



**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under special survey. The materials & workmanship are sound and good and the boiler is on board with under this ~~specification~~ for class ~~under~~ special.

This boiler has been fitted on board, tested under steam found satisfactory. The machinery is now eligible in my opinion to have the record of ~~L.M.C. 8.07~~ L.M.C. 8.07 in the Register Book.

*James Barclay*

Certificate (if required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for,
Special ... ..	£	:	:	8/6 1907
Donkey Boiler Fee ...	£	2	2	When received,
Travelling Expenses (if any) £	2	:	:	25/0 1907

Committee's Minute

TUES. 17 SEP 1907

Assigned

*See Minute on  
Std. Rpt. 23410*

*G. A. S. M.*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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