

pt. 5.

# REPORT ON BOILERS.

No. 11997.

Port of Leith  
 Date, first Survey 24th April Last Survey 24th May 1907  
 No. in Survey held at Swanmouth (Number of Visits 2)  
 Reg. Book. Cottlingham  
 on the Miss York S 13 103 Donkey boiler  
 Tons } Gross  
 Net  
 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 rivets 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 top Thickness of plates crown  
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  
Dist. 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 J. Smith & Co  
 Made at Swanmouth By whom made Geo Black & Son When made 24/5/07 Where fixed in Stokehold  
 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 5 Thickness 7/8 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 3/16  
 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 19/32 Description of joint Lap single Working pressure of furnace by rules 102 Thickness of furnace crown  
 plates 5/8 Stayed by dist. 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 & Son Manufacturer.  
 Dates of Survey 1907 apr 24 May 6, 24.  
 while building During progress of work in shops - -  
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 certificate for class *unlimited*.

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.B. 8.07* in the Register Book.

James Barclay

Certificate (if required) to be sent to 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	:	:	25/6 1907

Committee's Minute

TUES. 17 SEP 1907

Assigned

See Minute on  
Std. Rpt. 23410

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



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