

Rpt. 5.

REPORT ON BOILERS.

Nav. No. 51894.
Hull 18656
LON 69269
TUES. NOV 13 1906
SAT JAN 12 1907

Port of Newcastle-on-Tyne.

Received at London Office.

Last Survey 3rd Nov 1906.

No. in Survey held at South Shields.

Date, first Survey 9th July

(Number of Visits. 15.)

Reg. Book.

54 Coff on the mess. Goolle S B Co

'Margaret'

Tons Gross 297
Net 117

Master

Built at Goolle

By whom built Goolle S. B. Co.

When built 1906

Engines made at Yarmouth

By whom made W. Frabtree & Co

when made 1906

Boiler made at South Shields

By whom made J. T. Eltringham & Co

when made 1906

Registered Horse Power

Owners Lancashire S. F. Co

Port belonging to Fleethood

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel J. Spencer & Sons.

(Letter for record S.) Total Heating Surface of Boilers 1483 sq. ft. Is forced draft fitted No No. and Description of

Boilers One, S. C. Cyl. multitubular. Working Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs. Date of test 3/11/06.

No. of Certificate 7356 Can each boiler be worked separately ✓ Area of fire grate in each boiler 54 sq. ft. No. and Description of

safety valves to each boiler Two Spring Area of each valve 7.07 sq. in. Pressure to which they are adjusted 185 lbs.

Are they fitted with easing gear Yes 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 10 1/2" Mean dia. of boilers 12'-10 29/32" Length 10'-6"

Material of shell plates Steel Thickness 1 3/32" Range of tensile strength 28 3/4-32 Are the shell plates — flanged No.

Descrip. of riveting: cir. seams Lap, 10R. long. seams UBS, 1R Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 4"

Lap of plates width of butt straps 16 3/4" Per centages of strength of longitudinal joint 85.4% Working pressure of shell by

rules 185 lbs. Size of manhole in shell 16" x 12" Size of compensating ring 7 1/2" x 1 3/32" No. and Description of Furnaces in each

boiler Three plain Material steel Outside diameter 39" Length of plain part 48 1/2" Thickness of plates 3/4"

Description of longitudinal joint UBS, 5R. No. of strengthening rings ✓ Working pressure of furnace by the rules 187 1/2 lbs. Combustion chamber

plates: Material Steel Thickness: Sides 1/16" Back 21/32" Top 1/16" Bottom 3/4" Pitch of stays to ditto: Sides 9 1/2" x 9 1/2" Back 9 1/4" x 8 3/4"

Top 10" x 8" If stays are fitted with nuts or riveted heads nuts. Working pressure by rules 182 1/2 lbs. Material of stays Steel Diameter at

smallest part 1 1/32" Area supported by each stay 90.25 sq. in. Working pressure by rules 197 lbs. End plates in steam space: Material steel Thickness 1 1/16"

Pitch of stays 14" x 17" How are stays secured Welded Working pressure by rules 185 1/2 lbs. Material of stays Steel Diameter at smallest part 2 21/32"

Area supported by each stay 289 sq. in. Working pressure by rules 192 1/2 lbs. Material of Front plates at bottom Steel Thickness 1" Material of

Lower back plate Steel Thickness 29/32" Greatest pitch of stays 15" x 8 3/4" Working pressure of plate by rules 188 1/2 lbs. Diameter of tubes 3 1/2"

Pitch of tubes 4 3/4" x 4 5/8" Material of tube plates Steel Thickness: Front 1 1/16" x 1" Back 21/32" Mean pitch of stays 11 3/4" Pitch across wide

water spaces 14 1/4" Working pressures by rules 184 1/2 lbs. Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 6" (2 plates) 19/32" Length as per rule 2'-6 1/2" Distance apart 8" Number and pitch of Stays in each Two, 10"

Working pressure by rules 183 1/2 lbs. 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. Description Manufacturers of steel

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 Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules 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 Working pressure of furnace by rules Thickness of furnace crown

plates Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,

J. T. Eltringham & Co Manufacturer. S.

Dates of Survey while building: During progress of work in shops - 1906 July 9, 17, Aug 9, 15, 22, 28, Sep. 3, 13, 24, 27, Oct. 10, 22, 29, Nov. 1, 3
During erection on board vessel - see how. Rpt. No. 69269 for hull work -
Total No. of visits 15

Is the approved plan of main boiler forwarded herewith Yes.

Lloyd's Register Foundation

W744-0076

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

This boiler has been constructed under Special Survey the materials & workmanship good & efficient.

The bed plate, connecting rods, link motion, condenser and general fittings of engine examined. Crank gauge tried.

The engine and boiler fitted on board. tried under steam, and found satisfactory, and being now in a good and safe working condition are eligible in my opinion to be classed with the notation of $\frac{1}{2}$ L.M.C. 1.07 in the Register Book.

James Barclay

It is submitted that
this vessel is eligible for
THE RECORD H.L.M.C. 1.07.

Paul
14.1.07
14.1.07

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	£	4 :	19 :	12 NOV 1908
Donkey Boiler Fee ...	£	:	:	When received.
Travelling Expenses (if any) £	:	:	:	11.12.06 23/1/07

H. G. Dearden.

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

TUES. JAN 15 1907

Committee's Minute

Assigned

+ L.M.C. 1.07

MACHINERY CERTIFICATE
WRITTEN.



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Foundation