

REPORT ON BOILERS.

No. 23932

Port of Glasgow

Received at London Office WED. 9 MAY 1906

No. in Survey held at Glasgow

Date, first Survey 11 July 05

Last Survey 19 Feb 1906

Reg. Book.

(Number of Visits)

on the Two Main Boilers for S.S. "Auchendale"

Tons } Gross
Net

Master Muel Built at Port Glasgow By whom built Messrs Russell & Co (No 556) When built 1906

Engines made at Greenock By whom made Messrs Kincaid & Co (No 346) when made 1906

Boilers made at Glasgow By whom made Messrs Lindsay Burnett & Co (Nos 1047-8) when made 1906

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel David Colville & Sons.

(Letter for record ^S _{Some time ago}) Total Heating Surface of Boilers 5588 sq. ft. Is forced draft fitted No No. and Description of

Boilers Two Nos 22 Multitubular S.E. Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 19.2.06

No. of Certificate 7896 Can each boiler be worked separately ✓ Area of fire grate in each boiler 75 sq. ft. 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 16" 6" Length 11' 0"

Material of shell plates Steel Thickness 1 5/16 Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Double riv. long. seams Double straps rivets riveted Diameter of rivet holes in long. seams 1 3/8 Pitch of rivets 9 13/16 { 5 no per pitch

Lap of plates or width of butt straps 1' 8 1/4" x 1 3/16" inside Per centages of strength of longitudinal joint rivets 85.75 Working pressure of shell by plate 86.0

rules 180 lb Size of manhole in shell 16" x 12" Size of compensating ring 6 5/8" x 1 5/16" No. and Description of Furnaces in each

boiler Four "Brighton" Material Steel Outside diameter 3' 7 1/2" Length of plain part top ✓ Thickness of plates 17/32 bottom

Description of longitudinal joint Welded No. of strengthening rings ✓ Working pressure of furnace by the rules 190 lb Combustion chamber

plates: Material Steel Thickness: Sides 2 1/32 Back 5/8 Top 2 1/32 Bottom 7/8 Pitch of stays to ditto: Sides 8 3/4 x 9 1/4 Back 8 1/4 x 8 1/4

Top 9 1/4 x 8 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 184 Material of stays Steel 1 in. Diameter at

smallest part 1.72" Steel Area supported by each stay 8 1/4 x 9 1/4 Working pressure by rules 180 End plates in steam space: Material Steel Thickness 1 1/16

Pitch of stays 18" x 16" How are stays secured Double nuts Working pressure by rules 185 Material of stays Steel Section Diameter at smallest part 5.26"

Area supported by each stay 18" x 16" Small washers Working pressure by rules 182 Material of Front plates at bottom Steel Thickness 2 5/32 Material of

Lower back plate Steel Thickness 2 5/32 Greatest pitch of stays 12" Sec. stay Working pressure of plate by rules 180 lb Diameter of tubes 3 1/4"

Pitch of tubes 4 3/8 x 4 1/2 Material of tube plates Steel Thickness: Front 2 5/32 + 1 1/16 Back 3/4 Mean pitch of stays 10" Pitch across wide

water spaces 1' 2 1/2" Working pressures by rules 200 lb Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 8" x 1 3/4" Length as per rule 30 5/8 Distance apart 8 1/2 Number and pitch of Stays in each Two at 9 1/2"

Working pressure by rules 199 Superheater or Steam chest: how connected to boiler None 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 Date of test 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 Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

Lindsay Burnett & Co Manufacturer.

Dates of Survey while building

During progress of work in shops - - -
During erection on board vessel - - -
Total No. of visits

1905: July 11 Aug 25 Sep 12 Oct 9 27 Nov 16 Dec 11 29 1906: Jan 26

Is the approved plan of main boiler forwarded herewith

donkey

Yes

Lloyd's Register Foundation

