

REPORT ON BOILERS.

No. 25009  
TUES. MAR 26 1907  
1901 92 MAR 'SEN1

Port of Glasgow

Received at London Office

No. in Survey held at Glasgow Date, first Survey 12<sup>th</sup> July 06 Last Survey 14<sup>th</sup> March 1907  
Reg. Book. "Kasama" (Number of Visits)  
on the \$18  
Master Built at Dumbarton By whom built A McMillan & Son When built 1907  
Engines made at By whom made when made  
Boilers made at Glasgow By whom made Dunsmuir & Jackson Ltd when made 1907  
Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D B Oliver & Co.

Letter for record \$ Total Heating Surface of Boilers 1555 sq ft Is forced draft fitted No No. and Description of Boilers One Single Ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test  
No. of Certificate 8303 Can each boiler be worked separately Area of fire grate in each boiler 49.8 No. and Description of safety valves to each boiler 2 Direct Springs Area of each valve 4.91 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 Mean dia. of boilers 13 0" Length 10-6"  
Material of shell plates \$ Thickness 3/32" Range of tensile strength 28/32 Are the shell plates welded or flanged No  
Descrip. of riveting: cir. seams DR long. seams TR Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 8"  
Lap of plates or width of butt straps 16 3/4" Per centages of strength of longitudinal joint rivets 83-4 plate 86.9 Working pressure of shell by rules 180 Size of manhole in shell 16 x 12" Size of compensating ring McNeil No. and Description of Furnaces in each boiler 3 Duglton Material \$ Outside diameter 3-6 Length of plain part top 3 bottom 3 Thickness of plates crown 17/32 bottom 17/32  
Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 194 Combustion chamber plates: Material \$ Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 3/4" Pitch of stays to ditto: Sides 9 x 8 1/2" Back 9 x 8 1/2"  
Top 9 x 8 1/2" If stays are fitted with nuts or riveted heads 9 x 5 Working pressure by rules 198 Material of stays \$ Diameter at smallest part 1 7/8 Area supported by each stay 77.6 Working pressure by rules 181 End plates in steam space: Material \$ Thickness 13/16"  
Pitch of stays 8 x 18 1/2" How are stays secured 9 x 5 Working pressure by rules 188 Material of stays \$ Diameter at smallest part 6.33  
Area supported by each stay 336 Working pressure by rules 188 Material of Front plates at bottom \$ Thickness 13/16 Material of Lower back plate \$ Thickness 13/16 Greatest pitch of stays 14 1/4 x 8 1/2 Working pressure of plate by rules 180 Diameter of tubes 2 1/4  
Pitch of tubes 4 3/8 x 4 1/2 Material of tube plates \$ Thickness: Front 1" Back 13/16 Mean pitch of stays 11 Pitch across wide water spaces 14 1/8 Working pressures by rules 180 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 8 x 7/8 (2) Length as per rule 28 1/2 Distance apart 8 1/8 Number and pitch of Stays in each 2-9'  
Working pressure by rules 231 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

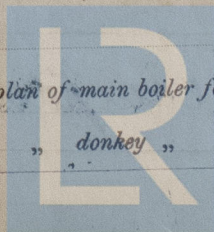
The foregoing is a correct description,  
of DUNSMUIR & JACKSON, Limited. Manufacturer.

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

See accompanying report

Is the approved plan of main boiler forwarded herewith No

" " " donkey " " No



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W600-0222



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

This Boiler has been built under survey in accordance with the approved plan & the requirements of the Rules. The workmanship is good.

This Report accompanies that on the Engine & Main Boiler.

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 ...	£	:	19.
Donkey Boiler Fee ...	£	:	When received,
Travelling Expenses (if any) £	:	:	19.

*Wm Gordon Murchie*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Glasgow 25 MAR 1907

Assigned See accompanying report.  
*lms*



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