

REPORT ON BOILERS.

No. 39287

Received at London Office WED. 5 - NOV. 1919

Date of writing Report 1919 When handed in at Local Office 1/11/1919 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 27/6/19 Last Survey 27th Oct 1919
 Reg. Book. on the Boilers No 502. (Number of Visits 7) Gross Tons 225 Net Tons
 Master Built at Glasgow By whom built James & Jackson Ltho 255 When built
 Engines made at By whom made When made
 Boilers made at Glasgow By whom made Dunsmuir & Jackson When made 1919
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel Glasgow J.S.C.

(Letter for record 5) Total Heating Surface of Boilers 7668 sq ft Is forced draft fitted No. and Description of Boilers Three Single Ended Multitubular Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 6-10-19 14-10-19 27-10-19

No. of Certificate 14927 14928 14952 Can each boiler be worked separately Area of fire grate in each boiler 63.3 sq ft No. and Description of safety valves to each boiler

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 Int Mean dia. of boilers 15'-6" Length 11'-6"

Material of shell plates S Thickness 1 1/4" Range of tensile strength 28/32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams L.D.R. long. seams T.R. & 5/8" straps Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 9/8"

Lap of plates or width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 88.3 plate 85.6 Working pressure of shell by rules 182 lbs Size of manhole in shell END PLATE 16" x 12" Size of compensating ring Flanged No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 50 3/16" Length of plain part Top 19 1/2" Thickness of plates crown 19 1/2" bottom 19 1/32"

Description of longitudinal joint Weld No. of strengthening rings None Working pressure of furnace by the rules 187 Combustion chamber plates: Material S Thickness: Sides 23/32" Back 1/16" Top 23/32" Bottom 23/32" Pitch of stays to ditto: Sides 10 7/8" x 9 1/4" Back 10 1/4" x 8 3/4"

Top 10 7/8" x 9 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 Material of stays S Area at smallest part 2.3 Area supported by each stay 99 Working pressure by rules 210 End plates in steam space: Material S Thickness 1 1/32"

Pitch of stays 2 3/4" x 20 1/2" How are stays secured D. nuts Working pressure by rules 181 Material of stays S Area at smallest part 8.29 Area supported by each stay 470 Working pressure by rules 183 Material of Front plates at bottom S Thickness 7/8" Material of Lower back plate S Thickness 27/32" Greatest pitch of stays 13 3/4" Working pressure of plate by rules 205 Diameter of tubes 2 3/4"

Pitch of tubes 4 x 3 7/8" Material of tube plates S Thickness: Front 3/32" Back 3/4" Mean pitch of stays 9 7/8" Pitch across wide water spaces 13 5/8" Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10" x 1 3/4" Length as per rule 35 9/16" Distance apart 10 5/8" Number and pitch of Stays in each 3 @ 9 1/4"

Working pressure by rules 183 Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

Boilers are duplicate of same makers Boilers nos 496-501.

DUNSMUIR & JACKSON, Limited
 The foregoing is a correct description,
 James Fletcher, Manufacturer.
 Director

Dates During progress of work in shops - 1919 June 27, Sept 23-30, Oct 3, 6-14-27. Is the approved plan of boiler forwarded herewith No

while building During erection on board vessel - - - Total No. of visits 7.

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

These boilers have been built under special survey and in accordance with the Rules, the materials and workmanship are sound and good, on completion they were tested by hydraulic pressure to 360 lbs per sq inch and found tight and satisfactory.

Survey Fee £ 17 : 6 : When applied for, 4/11/1919
 Travelling Expenses (if any) £ : : When received, 12/11/1919

Committee's Minute GLASGOW 4 NOV 1919
 Assigned TRANSMIT TO LONDON J.M.H.

J. Selles, Engineer Surveyor to Lloyd's Register of Shipping.

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