

REPORT ON BOILERS

No. 26003

RECEIVED 26 NOV 1907

Received at London Office

of writing Report 19 When handed in at Local Office 22nd Nov. 1907 Port of Glasgow
 in Survey held at Glasgow Date, First Survey 1st May Last Survey 19th Sept 1907
 Book. J. J. "Craigforth" (Number of Visits) Gross 2899.65
 Sup. on the Tons Net 1841.84
 Built at Port Glasgow By whom built A. Rodgers & Co. When built 1907
 Lines made at Glasgow By whom made A. Rodgers & Co. when made 1907
 Plans made at Glasgow By whom made Ewing & Lawson (2-820) when made 1907
 Registered Horse Power Owners D. Russell & Co. Port belonging to Leith.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Co of Scotland

Letter for record (3) Total Heating Surface of Boilers 529 # Is forced draft fitted No No. and Description of Boilers One Single Ended Working Pressure 80 lb Tested by hydraulic pressure to 160 lb Date of test 19/9/07
 of Certificate 4139 Can each boiler be worked separately Yes Area of fire grate in each boiler 25 # No. and Description of Safety valves to each boiler 2 Spring-loaded Area of each valve 5.9 # Pressure to which they are adjusted 85 lb. they fitted with easing gear No. In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No
 Smallest distance between boilers or uptakes and bunkers or woodwork 6" Mean dia. of boilers 8'-6" Length 8'-6"
 Material of shell plates steel Thickness 1 3/32" Range of tensile strength 28632 Are the shell plates welded or flanged No
 Description of riveting: cir. seams S. R. L. long. seams T. R. L. Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 3 3/8"
 No. of plates or width of butt straps 5 7/8" Per centages of strength of longitudinal joint rivets 83 plate 74.9 Working pressure of shell by rules 89 lb Size of manhole in shell 16" x 13" Size of compensating ring 24 x 28 x 9 1/16" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 2.7" Length of plain part top 5'-6" Thickness of plates crown 7/16" bottom 7/16" x 1 1/32" description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 98 Combustion chamber plates: Material steel Thickness: Sides 1 5/32" Back 2 9/64" Top 1/2" Bottom 1 5/32" Pitch of stays to ditto: Sides 8 7/8" x 8 1/2" Back 8 1/2" x 8 1/2" x 8 7/8" x 10" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 87 Material of stays steel Diameter at smallest part 1 3/8" Area supported by each stay 73 Working pressure by rules 87 End plates in steam space: Material steel Thickness 5/8" Pitch of stays 17" x 11" How are stays secured D. nuts Working pressure by rules 103 Material of stays steel Diameter at smallest part 1.85" Area supported by each stay 187 Working pressure by rules 99 Material of Front plates at bottom steel Thickness 5/8" Material of superheater back plate steel Thickness 5/8" Greatest pitch of stays 13 x 8 1/2 Working pressure of plate by rules 112 Diameter of tubes 3" Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates steel Thickness: Front 5/8" Back 5/8" Mean pitch of stays about 11" Pitch across wide water spaces 13" Working pressures by rules 83 lb Girders to Chamber tops: Material steel Depth and thickness of girder at centre 6" x 2" x 5/8" Length as per rule 23" Distance apart 10" Number and pitch of Stays in each 1 - 8 7/8" Working pressure by rules 112 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 plates Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness 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

The foregoing is a correct description,
EWING & LAWSON, LIMITED Manufacturer.

Dates Survey while building During progress of work in shops 1907, May 1, 14, 21, 20, June 5, 14, 14, 17, 25, 29 July 11, 30 Aug. Is the approved plan of boiler forwarded herewith Yes.
 During erection on board vessel 5, 16, 23 Sep. 15, 19 Total No. of visits 17

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey & is of good materials & workmanship. The safety valves were satisfactorily adjusted under steam as above, both washers 3/8" thick.

Survey Fee ... £ 2 : 2 : } When applied for, 25/11/07 1907
 Travelling Expenses (if any) £ : : } When received, 31.12.07

H Gardner-Smith.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
 George Murdoch

GLASGOW 25 NOV 1907

Committee's Minute Assigned See minute on Gen. 15246.

