

# REPORT ON BOILERS.

Date of writing Report 26/12/1907 When handed in at Local Office 24/12/1907 Port of Glasgow Received at London Office TUES. 31 DEC 1907  
 No. in Survey held at Glasgow Date First Survey 16 April Last Survey 25/12/1907  
 Reg. Book. on the S/S Kintail (Number of Visits 53) Gross Tons }  
 Net Tons }  
 Master Built at Glasgow By whom built B. Coumell & Co When built 1907  
 Engines made at Glasgow By whom made Dunsmuir & Jackson (324) when made 1907  
 Boilers made at ditto By whom made ditto when made 1907  
 Registered Horse Power Owners Port belonging to

## MULTITUBULAR BOILERS — ~~MAIN~~ ~~AUXILIARY~~ OR DONKEY. — Manufacturers of Steel Steel Co. Glydebridge

(Letter for record S) Total Heating Surface of Boilers 7387 Is forced draft fitted No No. and Description of Boilers one single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 18 Oct. 1907  
 No. of Certificate 9157 Can each boiler be worked separately Yes Area of fire grate in each boiler 25.44 No. and Description of safety valves to each boiler 2 Direct Spring Area of each valve 4.9 Pressure to which they are adjusted 105  
 Are they fitted with easing gear Yes 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 several ft. Mean dia. of boilers 9-6" Length 9-6"  
 Material of shell plates S Thickness 19/32 Range of tensile strength 28/32 Are the shell plates welded or flanged Yes  
 Descrip. of riveting: cir. seams DR long. seams TR. L. J. Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 1/16  
 Lap of plates or width of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 78% plate 74.5% Working pressure of shell by rules 101  
 Size of manhole in shell 16 x 12" Size of compensating ring McNeil No. and Description of Furnaces in each boiler 2 plain Material S Outside diameter 2.10 1/16 Length of plain part top 6-1" Thickness of plates crown 33/64 bottom 6-7" bottom 33/64  
 Description of longitudinal joint weld No. of strengthening rings Yes Working pressure of furnace by the rules 102 Combustion chamber plates: Material S Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 3/8" Pitch of stays to ditto: Sides 8 1/2 x 8 1/4 Back 8 1/2 x 7 1/16 area  
 Top 8 1/2 x 8 3/8 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 110 Material of stays S Diameter at smallest part 1.76 Area supported by each stay 70" Working pressure by rules 120 End plates in steam space: Material S Thickness 3/4 x 3/4 D.P. Diameter at smallest part 4.3  
 Pitch of stays 7 1/4 x 7 3/4 How are stays secured DN Working pressure by rules 102 Material of stays S area  
 Area supported by each stay 3 1/2" Working pressure by rules 115 Material of Front plates at bottom S Thickness 3/4 Material of Lower back plate S Thickness 3/4 Greatest pitch of stays 8 1/2 Working pressure of plate by rules 130 Diameter of tubes 3  
 Pitch of tubes 4 1/8 x 4 3/16 Material of tube plates S Thickness: Front 3/4" Back 3/8" Mean pitch of stays 2 3/8 Pitch across wide water spaces 14" Working pressures by rules 103 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 6 x 3/4 (2) Length as per rule 27 Distance apart 8 3/8 Number and pitch of Stays in each 2: 8 1/2"  
 Working pressure by rules 124 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

The foregoing is a correct description,  
James F. Fitch Manufacturer.

Dates of Survey } During progress of } See accompanying report Is the approved plan of boiler forwarded herewith Yes  
 while } work in shops - - - }  
 building } During erection on }  
 board vessel - - - }

Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan. The workmanship & material were of good quality. This Report accompanies that of the main boiler & machinery.

Survey Fee ... £ : :  
 Travelling Expenses (if any) £ : :  
 When applied for, ..... 19...  
 When received, ..... 19...

Committee's Minute Glasgow 30 DEC 1907  
 Assigned See attached report.

Wm Gordon-Maclean  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.  
 FRI. 29 DEC. 1907



M585-0139