

REPORT ON BOILERS.

No. 39505

Received at London Office

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Writing Report 1st Sept 1919 When handed in at Local Office 2-1-1920 Port of Glasgow
 in Survey held at Glasgow Date, First Survey 13/5/19 Last Survey 26th Aug 1919
 Book. on the Boilers No B.123 for ss. JESSIE SUMMERFIELD (Number of Visits 12) Gross 423
G. Summerfield Built at Ayr By whom built Ailsa S.B. Co. (No 342) When built 1919
 Boilers made at TROON By whom made Ailsa S.B. Co (No 104) when made 1919
 Boilers made at Glasgow By whom made Dunsmuir & Jackson B.123 when made 1919
 Registered Horse Power 89 Owners Summerfield S.S. Co. Port belonging to Liverpool

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

For record S Total Heating Surface of Boilers 1827 Is forced draft fitted No No. and Description of Boilers One Multitubular Single Ended Working Pressure 130 lbs Tested by hydraulic pressure to 260 Date of test 26/8/19
 Certificate 14867 Can each boiler be worked separately Yes Area of fire grate in each boiler 53 1/2 sq ft No. and Description of valves to each boiler air spring loaded Area of each valve 4.06 sq ft Pressure to which they are adjusted 135 lbs

Boilers fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No
 Least distance between boilers or uptakes and bunkers or woodwork 8'-3" dia. of boilers 13'-9" Length 10'-6"

Material of shell plates S Thickness 7/8" Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Direction of riveting: cir. seams L.D.R. long. seams Hot Straps T.P Diameter of rivet holes in long. seams 1/8" Pitch of rivets 7/4"

Width of butt straps 17 7/8" Percentages of strength of longitudinal joint rivets 93.2 Working pressure of shell by rules 84.4

Size of manhole in shell 16x12" Size of compensating ring No rivets No. and Description of Furnaces in each boiler 3 Plain Material S Outside diameter 42 1/4" Length of plain part top 75 Thickness of plates crown 23/32 bottom 83

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 138 Combustion chamber Material S Thickness: Sides 23/32" Back 5/8" Top 23/32" Bottom 23/32" Pitch of stays to ditto: Sides 10 1/8 x 9 3/4" Back 10 x 9 3/4"

If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 133 Material of stays S Area supported by each stay 97.5 Working pressure by rules 156 End plates in steam space: Material S Thickness 1 1/32"

How are stays secured D. nuts Working pressure by rules 130 lbs Material of stays S Area at smallest part 4.77

Area supported by each stay 365.5 Working pressure by rules 135 Material of Front plates at bottom S Thickness 7/8" Material of back plate S Thickness 49/64 Greatest pitch of stays 14 1/4 x 9 3/4" Working pressure of plate by rules 135 Diameter of tubes 3 1/2"

Material of tube plates S Thickness: Front 7/8" Back 23/32" Mean pitch of stays 10 3/8" Pitch across wide spaces 14 1/4" Working pressures by rules 133 Girders to Chamber tops: Material S Depth and thickness of

at centre 8 x 13 1/4" Length as per rule 2-9 1/16" Distance apart 9" Number and pitch of Stays in each 2 @ 10 1/8" Working pressure by rules 132

Superheater or Steam chest; how connected to boiler Yes Can the superheater be shut off and the boiler worked separately Yes Diameter Yes Length Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet Yes

Pitch of rivets Yes Working pressure of shell by rules Yes Diameter of flue Yes Material of flue plates Yes Thickness Yes Fitted with rings Yes Distance between rings Yes Working pressure by rules Yes End plates: Thickness Yes How stayed Yes

Working pressure of end plates Yes Area of safety valves to superheater Yes Are they fitted with easing gear Yes

Survey request form 2306 attached
 The foregoing is a correct description,
James Fletcher Manufacturer.

Dates of survey: During progress of work in shops May 13-26-28-30 June 5-9-12-17-27 July 7 Is the approved plan of boiler forwarded herewith Yes
 During erection on board vessel Aug 14-26 Total No. of visits 12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 This boiler has been built under special survey and in accordance with the Rules. The materials and workmanship are sound and good: on completion it was tested by water pressure to 260 lbs and found tight and satisfactory. This boiler has been securely fitted aboard and its safety valve adjusted under steam.

Survey Fee ... £ 6 : 2 : : When applied for, 25-9-1919
 Travelling Expenses (if any) £ : : : When received, 17-10-1919

Engineers Surveyors to Lloyd's Register of British and Foreign Shipping.
J. H. Miller & S. W. Clegg

Committee's Minute GLASGOW 6 - JAN 1920

Designed See attached machinery report.



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