

REPORT ON BOILERS.

No. 39874

Received at London Office WED. APR. 21 1920

Date of writing Report 19th April 1920 When handed in at Local Office 19-4-20 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 13-11-19 Last Survey 14th April 1920
 Reg. Book. on the boiler for S. Broomlough (Number of Visits 13) Gross 311 Tons Net 113
 Master Built at Rutherglen By whom built W. Chalmers & Co. Ltd. When built 1921
 Engines made at Glasgow By whom made Goddie Gillespie & Co. Ltd. When made 1921
 Boilers made at Glasgow By whom made A. W. Dalglisk (No. 61) When made 1920
 Registered Horse Power Owners Alexander King Ltd Port belonging to Belfast

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

(Letter for record S.) Total Heating Surface of Boilers 1240 Is forced draft fitted no No. and Description of Boilers One S.E. Marine Working Pressure 130 lbs tested by hydraulic pressure to 260 lbs Date of test 4/4/20

No. of Certificate 15219 Can each boiler be worked separately no Area of fire grate in each boiler 40 No. and Description of safety valves to each boiler

Area of each valve Pressure to which they are adjusted

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 12'-0" Length 10'-0"

Material of shell plates S. Thickness 3/4" Range of tensile strength 28/32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams D.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 7/8" Pitch of rivets 6 7/8"

Leap of plates or width of butt straps 12 3/4" Per centages of strength of longitudinal joint 89.9 Working pressure of shell by rules 132 Size of manhole in shell 16" x 12" Size of compensating ring 28" x 24" x 3 1/4" No. and Description of Furnaces in each boiler 2-plain Material S. Outside diameter 3'-9" Length of plain part 6'-4 3/8" Thickness of plates 2 1/4" crown 3 1/2" bottom 3 1/2"

Description of longitudinal joint weld No. of strengthening rings one Working pressure of furnace by the rules 142 Combustion chamber plates: Material S. Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 8" x 8 1/2" Back 8 1/2" x 8 1/2"

Top 8 1/2" x 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 142 Material of stays S. Diameter at smallest part 1 1/4" Area supported by each stay 76.5 Working pressure by rules 130 End plates in steam space: Material S. Thickness 7/8" Area 3.43

Pitch of stays 17" x 16" How are stays secured D.A.W. Working pressure by rules 133 Material of stays S. Diameter at smallest part 3/4" Area supported by each stay 272 Working pressure by rules 131 Material of Front plates at bottom S. Thickness 3/4" Material of Lower back plate S. Thickness 3/4" Greatest pitch of stays 15" x 8 1/2" Working pressure of plate by rules 161 Diameter of tubes 3 1/2"

Pitch of tubes 4 5/8" x 4 3/4" Material of tube plates S. Thickness: Front 3/4" Back 2 1/2" Mean pitch of stays 9 1/4" x 9 1/2" Pitch across wide water spaces 14" x 9" (double) Working pressures by rules 193 Girders to Chamber tops: Material S. Depth and thickness of girder at centre 8" x 9" (double) length as per rule 2'-4 25/32" Distance apart 9" Number and pitch of Stays in each 2-8 1/2"

Working pressure by rules 146 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

The foregoing is a correct description, A. W. Dalglisk Manufacturer.

Is the approved plan of boiler forwarded herewith Yes & advice with

Total No. of visits 13

Dates of Survey while building During progress of work in shops -- 1919. Nov 13-20 Dec 3-10. 1920. Jan 14-23 Feb 2-18-25 Mar 11-24. During erection on board vessel --- Apr 1-14

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

The boiler has been built under Special Survey.
 The workmanship & materials are good.
 The boiler will be fitted on board at Glasgow.
 This boiler has been fitted onboard in a satisfactory manner & is under working conditions & found in order. (See also rpt no H1538)

Survey Fee ... £ 4-3-0 When applied for. 191

Travelling Expenses (if any) £ : : When received. 191

Committee's Minute GLASGOW 20 APR 1920

Assigned TRANSMIT TO LONDON

See also Rpt. 41538

Lloyd's Register of Shipping

W694