

## REPORT ON BOILERS.

No. 39048.

WED. 3-SEP. 1919

Received at London Office

Date of writing Report 24. 8. 1919 When handed in at Local Office 24. 8. 1919 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 11/3/19 Last Survey 24. 8. 1919  
 Reg. Book. on the boiler for S.S. "GREY SKY" (Number of Visits 5) Gross Tons    Net Tons     
 Master    Built at Dundee By whom built Cooper & Craig Ltd. When built 1919  
 Engines made at Glasgow By whom made A. & W. Dalglisk (No 446) When made 1919  
 Boilers made at    By whom made    When made     
 Registered Horse Power    Owners    Port belonging to   

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Coy of Scotland  
 (Letter for record S.) Total Heating Surface of Boilers 814 ft Is forced draft fitted no No. and Description of Boilers One S.E. Marine Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 3. 4. 19  
 No. of Certificate 14812 Can each boiler be worked separately    Area of fire grate in each boiler 30.5 ft 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    Ins. Mean dia. of boilers 10'-0" Length 9'-6"  
 Material of shell plates S Thickness 27/32 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 15/16 Pitch of rivets 7"  
 Lap of plates or width of butt straps 13 3/4" Per centages of strength of longitudinal joint 86.9 Working pressure of shell by rules 182 Size of manhole in shell 16" x 12" Size of compensating ring 28" x 24" x 27/32 No. and Description of Furnaces in each boiler 2 - plain Material S Outside diameter 38" Length of plain part 72 1/2" Thickness of plates 23/32 crown    bottom     
 Description of longitudinal joint weld No. of strengthening rings one Working pressure of furnace by the rules 188 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 7 1/2" Back 8" x 7 1/2" Top 8" x 7" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182 Material of stays S Diameter at smallest part 1.5" Area supported by each stay 60 Working pressure by rules 200 End plates in steam space: Material S Thickness 7/8 Pitch of stays 14" x 14" How are stays secured D.N.W. Working pressure by rules 185 Material of stays S Diameter at smallest part 3.43" Area supported by each stay 196 Working pressure by rules 182 Material of Front plates at bottom S Thickness 7/8 Material of Lower back plate S Thickness 7/8 Greatest pitch of stays 13 1/4" Working pressure of plate by rules 230 Diameter of tubes 3 1/4" Pitch of tubes 4 3/8" x 4 1/4" Material of tube plates S Thickness: Front 7/8 Back 21/32 Mean pitch of stays 8 3/4" x 8 1/2" Pitch across wide water spaces 13 1/4" Working pressures by rules 310 Girders to Chamber tops: Material S Depth and thickness of girder at centre 8" x 9 1/2" (double) Length as per rule 28 1/4" Distance apart 7" Number and pitch of Stays in each 2 - 8" x 7"  
 Working pressure by rules 191 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   

Survey request form

No 2284 attached

The foregoing is a correct description,

A. &amp; W. Dalglisk Manufacturers

Dates of Survey: During progress of work in shops 19. 9. 11. 14. 25 Apr 19. 17. 25 May 1. 14. 28 Is the approved plan of boiler forwarded herewith yes & advice with  
 while building: During erection on board vessel June 10. 14. 26 July 3. 15 Aug 27 Total No. of visits 15

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

This boiler is a duplicate of other "Drifter" boilers made by the same firm (their Nos 434-441)  
 This boiler has been built under special survey; the materials and workmanship are good; it is being forwarded to Dundee for fitting aboard the vessel.  
 This boiler has now been tried under steam with satisfactory results. In recommendation please see App. Rpt 12448.

Survey Fee £ 4.10.0 When applied for 191  
 Travelling Expenses (if any) £ : : When received 191

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW  
 Assigned TRANSMIT TO LONDON

FRI. JUL. 30 1920

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