

## REPORT ON BOILERS.

No. 26714  
WED. 17 JUN 1908

Received at London Office  
Date of writing Report 20th May 1908 When handed in at Local Office 21st May 1908 Port of Glasgow  
No. in Survey held at Glasgow Date, First Survey 14th March Last Survey 18th May 1908  
Reg. Book. S.S. Enzie. (Number of Visits 10) Tons } Gross  
on the S.S. Enzie. Net  
Master Cowan Built at Cowan By whom built MacKie & Thomson Ltd When built 1908  
Engines made at Cowan By whom made Gauldie & Gillespie when made 1908  
Boilers made at Pollokshaws By whom made Ar. H. Dalglish (No 373) when made 1908  
Registered Horse Power \_\_\_\_\_ Owners James Hendry Port belonging to \_\_\_\_\_

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville, Ltd & Co. of Scot.  
(Letter for record S) Total Heating Surface of Boilers 723 sq ft Is forced draft fitted ✓ No. and Description of Boilers One, Single Ended Working Pressure 80 lbs Tested by hydraulic pressure to 360 Date of test 15/5/08  
No. of Certificate 8485 Can each boiler be worked separately ✓ Area of fire grate in each boiler 27 1/4 sq 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 ✓ Inside dia. of boilers 9'-0" Length 9'-6"  
Material of shell plates Steel Thickness 25/32" Range of tensile strength 28/32 Are the shell plates welded or flanged No  
Descrip. of riveting: cir. seams D R. Lap long. seams Double Straps Diameter of rivet holes in long. seams 13/16" Pitch of rivets 5 1/4"  
Lap of plates on width of butt straps 12" Per centages of strength of longitudinal joint rivets 85.8 Working pressure of shell by plate 85.8  
rules 183 lb Size of manhole in shell 16" x 12" Size of compensating ring 6" x 25/32" No. and Description of Furnaces in each boiler No, plain Material Steel Outside diameter 33" Length of plain part 76" Thickness of plates 21/32"  
Description of longitudinal joint Welded No. of strengthening rings one Working pressure of furnace by the rules 185 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 19/32" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 7/2 x 7" Back 8/2 x 7 1/4"  
Top 7/2 x 6 1/2" stays are fitted with nuts or riveted heads Nuts Working pressure by rules 184 Material of stays Steel Diameter at smallest part 1 1/8" Area supported by each stay 53 sq in Working pressure by rules 180 End plates in steam space: Material Steel Thickness 13/16"  
Pitch of stay 12 1/4 x 12 1/4" How are stays secured Nuts Working pressure by rules 182 Material of stays Steel Diameter at smallest part 3.030"  
Area supported by each stay 162 sq in Working pressure by rules 194 Material of Front plates at bottom Steel Thickness 13/16" Material of Lower back plate Steel Thickness 13/16" Greatest pitch of stays 12" Working pressure of plate by rules 227 Diameter of tubes 3"  
Pitch of tubes 4 1/8" Material of tube plate Steel Thickness: Front 13/16" Back 21/32" Mean pitch of stays 10 3/16" Pitch across wide water spaces 13" Working pressures by rules 253 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/2 x 1 1/8 Length as per rule 24 1/8" Distance apart 6 1/2" Number and pitch of Stays in each No, 7/2"  
Working pressure by rules 195 lb 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,

Ar. H. Dalglish

Manufacturer.

Dates of Survey } During progress of } 1908: March 4, 13, 18, Apr. 3, 8, 24, 30, May 5, 15, 18. Is the approved plan of boiler forwarded herewith Yes.  
while building } During erection on } board vessel - - - Total No. of visits 10

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

This boiler has been built under special survey, the materials and workmanship are of good quality and on completion was tested by hydraulic pressure to 360 pounds per square inch and was found tight and sound at that pressure. It is now fitted on the duffer Enzie.

Survey Fee ... .. To be charged on next report When applied for, ..... 19.....  
Travelling Expenses (if any) £ ..... When received, ..... 19.....

AMCommittee's Minute GLASGOW 16 JUN 1908

Assigned

See accompanying Report.George Hurdoch  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI 14 AUG 1908

FRI 9 OCT 1908

TUES 22 JUN 1909

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Foundation