

## REPORT ON BOILERS.

No. 50586

Received at London Office 25 JUN 1930

Date of writing Report 16 June 1930 When handed in at Local Office 21 6 30 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 26 5 30 Last Survey 7 6 1930

Reg. Bobk. on the Air Rimmer No 5197 - M.V. 'LAUREL' (Number of Visits 4) Tons { Gross 100 14 Net -

Master Built at Glasgow By whom built Riddwood &amp; Co. Yard No. 28. When built 1930.

Engines made at RECEIVER. By whom made Wilson Birmingham &amp; Co. Engine No. When made -

Boilers made at Glasgow By whom made Wilson Birmingham &amp; Co. Boiler No. 5197 When made 1930

Nominal Horse Power Owners Port belonging to -

~~MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.~~

Manufacturers of Steel (Shell &amp; Straps) (Ends) James Dunlop &amp; Co. Ltd. Consult Iron &amp; Steel. (Letter for Record -)

Capacity About 560 F Is forced draught fitted - Coal or Oil fired -

No. and Description of Boilers One Rimmer Rimmer Working Pressure 215 lb

Tested by hydraulic pressure to 430 lb Date of test 7 6 30 No. of Certificate 18747. Can each boiler be worked separately -

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler -

Area of each set of valves per boiler { per Rule as fitted 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 - Is oil fuel carried in the double bottom under boilers -

Smallest distance between shell of boiler and tank top plating - Is the bottom of the boiler insulated -

Largest internal dia. of boiler Rec. 6' 9" Length 17' 0" Shell plates: Material S. Tensile strength 28/32 T.J.

Thickness 3/4" Are the shell plates welded or flanged No. Description of riveting: circ. seams { end Double inter. 3/8" 1/2"

long. seams Triple/D.B.S. Diameter of rivet holes in { circ. seams 1 1/16" 1/2" Pitch of rivets { 5/8" 1/2" 15/16"

Percentage of strength of circ. end seams { plate 66.0 rivets 62.1 Percentage of strength of circ. intermediate seam { plate 66.0 rivets 62.1

Percentage of strength of longitudinal joint { plate 83.70 rivets 88.14 Working pressure of shell by Rules 23 1/2 lb. and 1/2"

Thickness of butt straps { outer 3/4" inner 3/4" No. and Description of Furnaces in each Boiler -

Material Tensile strength Smallest outside diameter -

Length of plain part { top bottom Thickness of plates { crown bottom Description of longitudinal joint -

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 26/30 T.J.

End plates in steam space: Material S. Tensile strength 26/30 T.J. Thickness 1/8" 1/2" Pitch of stays None

How are stays secured Dished Ends. Radius 5' 0" Working pressure by Rules 23 1/2 lb.

Tube plates: Material { front Tensile strength Thickness {

Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front back

Girders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

at centre Length as per Rule Distance apart No. and pitch of stays

in each Working pressure by Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

Working pressure by Rules Front plate at bottom: Material Tensile strength

Thickness Lower back plate: Material Tensile strength Thickness

Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Working Pressure Main stays: Material Tensile strength

Diameter { At body of stay, or Over threads No. of threads per inch Area supported by each stay

Working pressure by Rules Screw stays: Material Tensile strength

Diameter { At turned off part, or Over threads No. of threads per inch Area supported by each stay

Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter { At turned off part, or Over threads

No. of threads per inch Area supported by each stay Working pressure by Rules

Tubes: Material External Diameter { Plain Stay Thickness No. of threads per inch

Pitch of tubes Working pressure by Rules Manhole compensation: Size of opening in

Plate 16' x 12' Section of compensating ring None No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends Depth of flange if manhole flanged 3' Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets

Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays

Inner radius of crown Working pressure by Rules

How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of Tubes Steel castings

Number of elements Material of tubes Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes castings and after assembly in place

Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description,  
For WILSON BOILERMAKERS LTD.,  
D. Laurensen Manufacturer.

Dates of Survey { During progress of work in shops - - 1930 May 26 June 2-4-7 Are the approved plans of boiler and superheater forwarded herewith 27.2.30 (If not state date of approval.)

while building { During erection on board vessel - - - Total No. of visits 11

Is this Boiler a duplicate of a previous case Yes. If so, state Vessel's name and Report No. In 5196 GL. Rpt. 50265

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

This Air Receiver has been constructed under Special Survey, in accordance with the approved plan. The materials and workmanship employed in its manufacture are sound and good and passed satisfactory under hydraulic test.

It will be fitted on board M.V. 'LAREL' Master D. J. Thomson, S.D.C. Ltd. in 28 Ship to Glasgow.

Survey Fee ... £ 4 : 4 : 0 When applied for 20 JUN 1930

Travelling Expenses (if any) £ - : - : - When received 28.6.1930

W. Lane.  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 24 JUN 1930

Assigned TRANSMIT TO LONDON

See G.S. Rpt. No. 50695