

REPORT ON BOILERS.

No. 54997

Received at London Office 3 OCT 1934

Writing Report 10 When handed in at Local Office 1.10.1934 Port of Glasgow

Survey held at Glasgow Date, First Survey 20.8.34 Last Survey 26.9.1934

on the S/S (Number of Visits 14) Tons { Gross _____ Net _____

Built at Lewis Dubee By whom built Davie SB&RCO Yard No. 510 When built 1934

Made at Glasgow By whom made Aitchison Blair & Co Ltd Engine No. 190 When made 1934

Made at Glasgow By whom made Davie Rowan & Co Ltd Boilers No. 401 When made 1934

HP _____ Owners _____ Port belonging to _____

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel L. Drilles Ltd. (Letter for Record (S))

Heating Surface of Boilers 2460 sq ft Is forced draught fitted no Coal or Oil fired coal

Description of Boilers Two Navy type Working Pressure 120

Tested by hydraulic pressure to 230 Date of test 26-9-34 No. of Certificate 19452 Can each boiler be worked separately _____

Area of Firegrate in each Boiler 29.25 sq ft No. and Description of safety valves to each boiler _____

No. of each set of valves per boiler { per Rule _____ as fitted _____ } Pressure to which they are adjusted _____ Are they fitted with easing gear _____

Use of donkey boilers, state whether steam from main boilers can enter the donkey boiler _____

Least distance between boilers or uptakes and bunkers or woodwork _____ Is oil fuel carried in the double bottom under boilers _____

Least distance between shell of boiler and tank top plating _____ Is the bottom of the boiler insulated _____

Least internal dia. of boilers 4'-6" Length 18'-0" Shell plates: Material steel Tensile strength 28-32 tons

Thickness 5/8" Are the shell plates welded or flanged no Description of riveting: circ. seams { ends WR Lap inter. WR Lap } ends 2'-6 1/8" inter. 2'-2 1/4"

Seams WRB TR Diameter of rivet holes in { circ. seams 1 1/16" long. seams 1 1/16" } Pitch of rivets { ends 4 3/4" } ends 63.8 rivets 60.7

Percentage of strength of circ. end seams { plate 69.9 rivets 52 } Percentage of strength of circ. intermediate seam { plate 63.8 rivets 60.7 }

Percentage of strength of longitudinal joint { plate 82.8 rivets 101.3 combined 92.8 } Working pressure of shell by Rules 168

Thickness of butt straps { outer 7/16" inner 9/16" } No. and Description of Furnaces in each Boiler Two Weighton

Material steel Tensile strength 26-30 tons Smallest outside diameter 2'-8 1/8"

Thickness of plain part { top _____ bottom _____ } Thickness of plates { crown 7/16" bottom _____ } Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom _____ Working pressure of furnace by Rules 190

Stays in steam space: Material Steel Tensile strength 26-30 tons Thickness F 3/32" B 1/16" Pitch of stays 13" x 13"

Are stays secured DN&RW Working pressure by Rules 180

Stays in steam space: Material { front end steel back cc } Tensile strength { 26-30 tons } Thickness { 1 1/16" } Working pressure { front 126 back 126 }

Pitch of stay tubes in nests 11 9/16" Pitch across wide water spaces _____

Stays to combustion chamber tops: Material steel Tensile strength 28-32 tons Depth and thickness of girder _____

Centre 2 @ 7 x 9/16" Length as per Rule 27 11/16" Distance apart 9" No. and pitch of stays _____

Thickness 2 @ 9" Working pressure by Rules 141 Combustion chamber plates: Material steel

Tensile strength 26-30 tons Thickness: Sides 9/16" Top 9/16" Bottom 9/16"

Pitch of stays to ditto: Sides 9" x 9" Back _____ Top 9" x 9" Are stays fitted with nuts or riveted over nuts

Working pressure by Rules 134 Front plate at bottom: Material steel Tensile strength 26-30 tons

Thickness 2 3/32" Lower back plate: Material steel Tensile strength 26-30 tons Thickness 1 1/16"

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

Working Pressure 180 Main stays: Material steel Tensile strength 28-32 tons

At body of stay, 1 3/4" No. of threads per inch 6 Area supported by each stay 169 sq"

Over threads _____

Working pressure by Rules 135 Screw stays: Material steel Tensile strength 26-30 tons

At turned off part, 1 3/8" No. of threads per inch 9 Area supported by each stay 81 sq"

Over threads _____

Working pressure by Rules 125 Are the stays drilled at the outer ends no 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 Iron External diameter Plain 3 1/2" Stay 3 1/2" Thickness 9 W.G. 5/16" No. of threads per inch 9
 Pitch of tubes 4 5/8" x 4 5/8" Working pressure by Rules 165 Manhole compensation: Size of opening in shell plate 16 x 12 Section of compensating ring 6" x 3/4" No. of rivets and diameter of rivet holes 32 @ 7/8"
 Outer row rivet pitch at ends 4 3/4" Depth of flange if manhole flanged 3" Steam Dome: Material none
 Tensile strength - Thickness of shell - Description of longitudinal joint -
 Diameter of rivet holes 0.12 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 none 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 David Rowan & Co. Ltd Manufacturer.
 Arch- H. Strickson

Dates of Survey - During progress of work in shops - 1934 Aug. 20. 23. 24. 29. 31 Sep. Are the approved plans of boiler and superheater forwarded herewith - (If not state date of approval.)
 while building - During erection on board vessel - 3. 4. 6. 10. 11. 13. 17. 19. 26 Total No. of visits 14

Is this Boiler a duplicate of a previous case no If so, state Vessel's name and Report No. -

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

The materials and workmanship are good.
 The boilers have been constructed under special survey.
 They are being dispatched to Levis, Quebec to be fitted in the vessel for classed vessel.

1/10/34

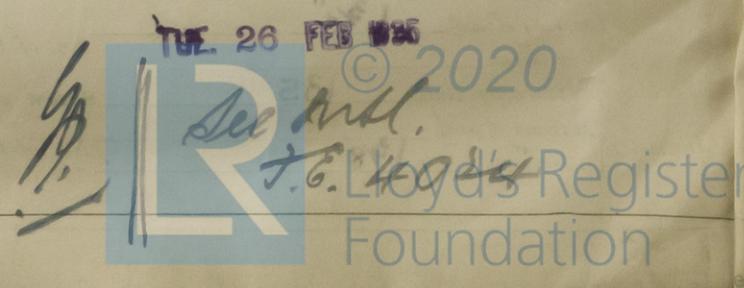
Survey Fee £ 16 : 8 : When applied for, 2 - OCT 1934
 Travelling Expenses (if any) £ - : When received, 6.10.1934

S. Davis

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 2 - OCT 1934

Assigned TRANSMIT TO LONDON



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