

REPORT ON BOILERS.

Received at London Office 5 MAR 1930

Date of writing Report 19 30 When handed in at Local Office 3. 3. 19 30 Port of Glasgow

No. in Reg. Book Survey held at Glasgow Date, First Survey 13. 8. 29 Last Survey 28-2-1930

on the new steel ship "TALUNE". (Number of Visits 55) Gross Tons 2742 Net Tons 1506

Master Built at Glasgow By whom built Blythwood SBCo. Yard No. 27 When built 1930

Engines made at Glasgow By whom made W W Henderson & Co. Ld. Engine No. 14F When made 1930

Boilers made at Glasgow By whom made W W Henderson & Co. Ld. Boiler No. 14F When made 1930

Nominal Horse Power 432 Owners Union S. S. Coy of N. J. Ltd Port belonging to Hobart

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel James Dunlop & Co. Ld. Gießhüttenwerk a. S. Oberhausen (Letter for Record (S) ✓)

Total Heating Surface of Boilers 6345 sq ft Is forced draught fitted yes Coal or Oil fired oil

No. and Description of Boilers Two single ended Working Pressure 200

Tested by hydraulic pressure to 350 Date of test 18-12-29 No. of Certificate 18555/18540 Can each boiler be worked separately yes

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler bucket "High Lift" Improved

Area of each set of valves per boiler per Rule 11.10" as fitted 11.88" Pressure to which they are adjusted 205 Are they fitted with easing gear yes

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 1'-10" Is oil fuel carried in the double bottom under boilers yes

Smallest distance between shell of boiler and tank top plating 2'-0" Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 16'-6" Length 12'-3" Shell plates: Material steel Tensile strength 28.32 tons

Thickness 1 1/2" Are the shell plates welded or flanged no Description of riveting: circ. seams end DR inter. -

long. seams DR S, TR Diameter of rivet holes in circ. seams 1 1/2" long. seams 1 1/2" Pitch of rivets 4.44" 10 9/8"

Percentage of strength of circ. end seams plate 66.2 rivets 43.5 Percentage of strength of circ. intermediate seam plate 85.8 rivets ✓

Percentage of strength of longitudinal joint plate 85.8 rivets 85.3 combined 88.8 Working pressure of shell by Rules 202

Thickness of butt straps outer 1 1/8" inner 1 1/4" No. and Description of Furnaces in each Boiler Four Deighton 4

Material steel Tensile strength 26-30 tons Smallest outside diameter 42.1875"

Length of plain part top bottom Thickness of plates crown 1 1/2" bottom 1 3/32" Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 204

End plates in steam space: Material steel Tensile strength 28-32 Thickness 1 1/8" Pitch of stays 17" x 14"

How are stays secured WN Working pressure by Rules 200

Tube plates: Material front steel back Tensile strength 28-32 tons 26-30 tons Thickness 1" 1 1/16"

Mean pitch of stay tubes in nests 7 1/2" Pitch across wide water spaces 13 1/2" Working pressure front 209 back 422

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

at centre 3 @ 8 3/4" x 1 1/8" Length as per Rule 34.5" Distance apart 8 1/2" No. and pitch of stays

in each 3 @ 8 3/4" Working pressure by Rules 211 Combustion chamber plates: Material steel

Tensile strength 26-30 tons Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 7/8"

Pitch of stays to ditto: Sides 8 3/4" x 8 3/4" Back 8 3/4" x 8 3/4" Top 8 3/4" x 8 1/2" Are stays fitted with nuts or riveted over nuts in ccs

Working pressure by Rules 216 Front plate at bottom: Material steel Tensile strength 28-32 tons

Thickness 1" Lower back plate: Material steel Tensile strength 28-32 tons Thickness 3 1/32"

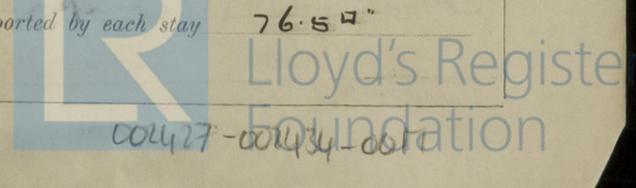
Pitch of stays at wide water space 13 1/2" Are stays fitted with nuts or riveted over nuts

Working Pressure 224 Main stays: Material steel Tensile strength 28-32 tons

Diameter At body of stay, or Over threads 2 1/8" No. of threads per inch 6 Area supported by each stay 294 sq in

Working pressure by Rules 207 Screw stays: Material steel Tensile strength 26-30 tons

Diameter At turned off part, or Over threads 1 3/4" No. of threads per inch 9 Area supported by each stay 76.5 sq in



Working pressure by Rules **239** Are the stays drilled at the outer ends **No** Margin stays: Diameter ^{At turned off part,} **1 7/8"**
 No. of threads per inch **9** Area supported by each stay **97.50"** Working pressure by Rules **219**
 Tubes: Material **gun** External diameter ^{Plain} **2 1/2"** Thickness ^{Stay} **1/16"** No. of threads per inch **9**
 Pitch of tubes **3 3/4" x 3 3/4"** Working pressure by Rules **230** Manhole compensation: Size of opening in shell plate **20" x 16"** Section of compensating ring **10 9/8" x 1 1/2"** No. of rivets and diameter of rivet holes **44 @ 1 1/2"**
 Outer row rivet pitch at ends **10 9/8"** Depth of flange if manhole flanged **4 1/2"** Steam Dome: Material **none**
 Tensile strength _____ Thickness of shell _____ Description of longitudinal joint _____
 Diameter of rivet holes _____ Pitch of rivets _____ Percentage of strength of joint ^{Plate} _____
 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} _____
 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 _____ 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 _____

FOR GRANT OF APPROVAL TO THE ABOVE CORRECT DESCRIPTION,
S. Davis Manufacturer.
 DIRECTOR

Dates of Survey ^{During progress of work in shops - -} **See Accompanying** Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) _____
^{while building} ^{During erection on board vessel - -} **machinery Report** Total No. of visits **55**

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 in accordance with the Rules, satisfactorily fitted in the vessel and their safety valves adjusted under steam.

A. B.
 3/3/30.

Survey Fee ... £ **See Machinery Report** When applied for, **19**
 Travelling Expenses (if any) £ _____ When received, **19**

S. Davis
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 4 - MAR 1930** TUE. 17 JUN 1930

Assigned **See Accompanying Machinery Report**



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