

REPORT ON BOILERS.

Air Tanks.

Sld N^o 31608

Sld No. 55328

Received at London Office 23 JAN 1935

Date of writing Report 16-1-1935 When handed in at Local Office 19-1-1935 Port of Glasgow

No. in Survey held at Amman Date, First Survey 14-10-34 Last Survey 15-1-1935

Reg. Book. on the Air Storage Tanks N^{os} 268-269. (Number of Visits 16) Tons { Gross Net

Master Built at By whom built Yard No. When built

Engines made at By whom made Engine No. When made

Tanks made at Amman By whom made Buchanan & Co Amman L^g K 268 Boiler Nos K 269 When made 1935

Nominal Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles & Co (Letter for Record)

Total Heating Surface of Boilers 92 sq ft. Is forced draught fitted Coal or Oil fired

No. and Description of Boilers 2-High Pressure air storage tanks Working Pressure 600

Tested by hydraulic pressure to 800 Date of test 15-1-35 No. of Certificate 19496 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 tanks 3'-6" Length 10'-8" Shell plates: Material 8 Tensile strength 28-32

Thickness 1" Are the shell plates welded or flanged No Description of riveting: circ. seams { end inter. Tail

Long. seams T.R.D.B.S. Diameter of rivet holes in { circ. seams 1 9/32" Pitch of rivets { 3 7/32" 7 1/2"

Percentage of strength of circ. end seams { plate 61 rivets 62 Percentage of strength of circ. intermediate seam { plate rivets

Percentage of strength of longitudinal joint { plate 83 rivets 126 Working pressure of shell by Rules 603

Thickness of butt straps { outer 13/16" inner 15/16" No. and Description of Furnaces in each Boiler

Material Tensile strength Smallest outside diameter

Length of plain part { top 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

End plates in steam space: Material 8 Tensile strength 26-30 Thickness 1 1/4" Pitch of stays none

How are stays secured Working pressure by Rules

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, No. of threads per inch Area supported by each stay

Working pressure by Rules Screw stays: Material Tensile strength

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

Working pressure by Rules

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

Working pressure by Rules

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

Working pressure by Rules

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

Working pressure by Rules

Diameter { At turned off part, 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 _____
shell plate 16" x 12" ✓ Section of compensating ring 7mm ✓ No. of rivets and diameter of rivet holes _____
Outer row rivet pitch at ends ✓ Depth of flange if manhole flanged 3 3/4" ✓ 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 _____
FOR COCHRAN & CO., ANNAN, LID.
The foregoing is a correct description, _____
_____ GENERAL WORKS MANAGER

Dates of Survey { During progress of work in shops - - 1934 Oct: 11. 16. 19. 24 Nov: _____ Are the approved plans of boiler and superheater forwarded herewith _____
while building { During erection on board vessel - - 1. 5. 12. 20. 23. 30 Dec: 12. 18 (1934) Total No. of visits 16
_____ Jan: 4. 8. 15 _____

Is this Boiler a duplicate of a previous case _____ ✓ If so, state Vessel's name and Report No. GLS N° 55271.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Air Storage tanks have been built under special Survey in accordance with the approved plan and the Society's Rules and requirements. The materials and workmanship are good.

19/1/35

These Air Storage Tanks are intended for H^{rs} Rosford & Sons Ltd. Yards N° 613

Survey Fee ... £ 4 : 46 : - When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

MONTHLY ACCOUNT

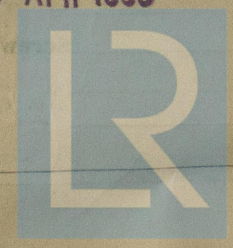
Jas. Cairns.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 22 JAN 1935

TUE. 9 APR 1935

Assigned TRANSMIT TO LONDON

see J. E. Machy



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Foundation