

# REPORT ON BOILERS.

No. 114638

11 SEP 1957

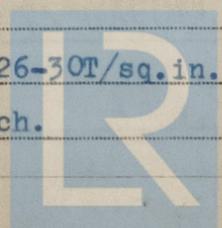
Received at London Office

NEWCASTLE-ON-TYNE

Writing Report 31st July 1957. When handed in at Local Office 5/9/57. Port of South Shields  
Survey held at South Shields Date, First Survey 28.9.56. Last Survey 18.7.1957  
on the "M.V. SEISTAN" (Number of Visits 21) Tons {Gross 7440 Net  
at South Shields By whom built Messrs. J. Readhead & Sons Ltd. Yard No. 592 When built 1957  
made at Newcastle By whom made Messrs. Hawthorn Leslie (Eng) Ltd. Engine No. 4167 When made 1957  
made at South Shields By whom made Messrs. J. Readhead & Sons Ltd. Boiler No. 592 When made 1957  
per Rule 880 Owners Strick Line Ltd. Port belonging to LONDON

## TITUBULAR BOILERS ~~MAIN~~ ~~XXXXXXXXXX~~ ~~OR~~ DONKEY.

Manufacturers of Steel Colvilles Ltd.  
Heating Surface of Boilers 6068 sqft. Of Superheaters -  
for Register Book 6068 sqft. Is forced draught fitted Yes ~~Coal~~ or Oil fired Oil  
Description of Boilers 2 - Multitubular Working Pressure 180lbs/sq.in.  
by hydraulic pressure to 320lbs/sq.in. Date of test 21.1.57. No. of Certificate 1744Nwc. Can each boiler be worked separately Yes  
of Firegrate in each Boiler - No. and Description of safety valves to each boiler 2 - Improved High Lift.  
of each set of valves per boiler {per Rule 9.75 sq.ins. Pressure to which they are adjusted 180lb/sq.in. Are they fitted with easing gear Yes  
as fitted 9.81 sq.ins.  
of donkey boilers, state whether steam from main boilers can enter the donkey boiler -  
least distance between boilers or uptakes and bunkers or woodwork 3'-0" Is oil fuel carried in the double bottom under boilers No  
least distance between boilers or uptakes and bunkers or woodwork Sufficient Is the bottom of the boiler insulated Yes  
least internal dia. of boilers 15'-3.9/16" Length 11'-9" Shell plates: Material O.H.S. Tensile strength 29-33T/sq.in.  
How welded, state name of welding Firm - Have all the requirements of the Rules for Class I vessels  
Complied with - Thickness - Are the shell plates welded or flanged - Description of riveting: circ. seams {end D riveted lap  
inter -  
seams T.R.D. Butt Diameter of rivet holes in {circ. seams 1 1/4" Pitch of rivets {3.77"  
long. seams 1 1/4" {8.625"  
Percentage of strength of circ. end seams {plate 66.75% Percentage of strength of circ. intermediate seam {plate -  
rivets 42.4% rivets -  
Percentage of strength of longitudinal joint {plate 85.51%  
rivets 87.0%  
combined 88.4%  
Thickness of butt straps {outer 15/16" No. and Description of Furnaces in each Boiler 3 - Deighton Section.  
inner 1.1/16" Tensile strength 26-30T/sq.in. Smallest outside diameter 3'-8.7/8"  
Material O.H.S. Thickness of plates 9/16" Description of longitudinal joint Fusion Welded.  
of plain part {top 4.7/8" Thickness of plates 9/16" Description of longitudinal joint Fusion Welded.  
bottom 4.7/8"  
Dimensions of stiffening rings on furnace or c.c. bottom None  
Plates in steam space: Material O.H.S. Tensile strength 26-30t/sq.in. Thickness 1.3/16" Pitch of stays 21 1/2" x 18 1/2"  
Stays secured Nutted in and out: Washers outside.  
Plates: Material {front O.H.S. Tensile strength {26-30T/sq.in. Thickness {25/32"  
back O.H.S. {26-30T/sq.in. {3/4"  
Pitch of stay tubes in nests 8.66" Pitch across wide water spaces 13.1/2"  
Plates to combustion chamber tops: Material O.H.S. Tensile strength 26-30T/sq.in. Depth and thickness of girder  
Length as per Rule 8.1/2" 2'-10.1/4" Distance apart 10" No. and pitch of stays  
3 @ 9"  
Combustion chamber plates: Material O.H.S.  
Strength 26-30T/sq.in. Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 11/16"  
Backs welded  
Stays to ditto: Sides 10" x 9" Back 10" x 9" Top 10" x 9" Are stays fitted with nuts or riveted over Nuts tops & sides  
Plate at bottom: Material O.H.S. Tensile strength 26-30T/sq.in.  
Thickness 25/32" Lower back plate: Material O.H.S. Tensile strength 26-30T/sq.in. Thickness 25/32"  
Stays at wide water space 13 1/2" x 9" Are stays fitted with nuts or riveted over Welded.  
Stays: Material O.H.S. Tensile strength 28-32T/sq.in.  
At body of stay 3 1/2" and 3" No. of threads per inch 6 T/inch  
Over threads -  
Stays: Material O.H.S. Tensile strength 26-30T/sq.in.  
At turned off part 1.5/8, 1 1/2" and 1.7/8" No. of threads per inch 9 T/inch.  
Over threads -



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Are the stays drilled at the outer ends No Margin stays: Diameter <sup>At turned off part</sup> 1 3/4" and 1.  
<sup>or</sup>  
<sup>Over threads</sup>

No. of threads per inch 9 T/inch

Tubes: Material Seamless steel External diameter <sup>Plain</sup> 2 1/2" <sup>Stay</sup> 2 1/2" Thickness 9 L.S.G. 4" 5/16, 3/8 No. of threads per inch 9 T.P.I.

Pitch of tubes 3 3/4" x 3 3/4" Manhole compensation: Size of opening

shell plate - Section of compensating ring - No. of rivets and diameter of rivet holes -

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

Tensile strength - Thickness of shell - Description of longitudinal joint -

Diameter of rivet holes - Pitch of rivets - Percentage of strength of joint <sup>Plate</sup> - <sup>Rivets</sup> -

Internal diameter - Thickness of crown - No. and diameter

stays - Inner radius of crown - Own

How connected to shell - Size of doubling plate under dome - Diameter of rivet holes and p

of rivets in outer row in dome connection to shell - Inst

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Type of Superheater - Manufacturers of <sup>Tubes</sup> - <sup>Steel forgings</sup> - <sup>Steel castings</sup> -

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

Material of headers - Tensile strength - Thickness - Can the superheater be shut off

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 -

Pressure to which the safety valves are adjusted - Hydraulic test press

tubes - forgings and castings - and after assembly in place - Are drain cock

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 JOHN READHEAD & SONS LTD.  
 The foregoing is a correct description,  
*[Signature]* Manufactu

Dates of Survey while building <sup>During progress of work in shops - -</sup> 28.9.56 - 20.5.57. <sup>During erection on board vessel - - -</sup> 21.5.56 - 18.7.57. Are the approved plans of boiler and superheater forwarded to the Director (If not state date of approval.) 20.8.57 No. 19.4.56.

Total No. of visits 21.

Is this Boiler a duplicate of a previous case - Yes If so, state Vessel's name and Report No. M.V. "BALUCHISTAN"

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

These boilers have been built and installed under special survey and in accordance with the Rule of the Society and the Secretary's letters and approved plans.

The materials and workmanship are good.

The boilers have been satisfactorily installed on board, examined under steam, safety valves adjusted under steam to the approved pressure and accumulation tests carried out.

Survey Fee See Report 4B. : : When applied for 19.....

Travelling Expenses (if any) £ : : When received 19.....

*[Signature]*  
*[Signature]*

Engineer Surveyor to Lloyd's Register of Shipping.  
 J.W. WALKER & V.H. LARSEN.

Committee's Minute FRIDAY 27 SEP 1957

Assigned See Rpt. 1.

