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2 DEC 1949

IN D.O.

REPORT ON BOILERS.

No. 106735

Received at London Office

NEWCASTLE-on-TYNE

Date of writing Report 16.11.49 When handed in at Local Office 16.11.49 Port of

No. in Survey held at WALLSEND-ON-TYNE Date, First Survey 21.9.49 Last Survey 8.11.49

Reg. Book. on the M.V. "FELIPES" (Number of Visits 8) Gross 2992 Tons Net 1544

Master Built at SUNDERLAND By whom built JOHN CROWN & SONS LTD Yard No. When built

Engines made at NEWCASTLE-ON-TYNE By whom made RTW HANTHORN LESLIE & CO LTD Engine No. 4064 When made

Boilers made at WALLSEND-ON-TYNE By whom made WALLSEND SLIPWAY & ENG CO LTD Boiler No. 4296 When made 1949

Nominal Horse Power 1526/12 = 127 Owners ANGLO-SAXON PETROLEUM CO LTD Port belonging to LONDON

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

Manufacturers of Steel COLVILLES LTD 7.15.16 (Letter for Record S)

Total Heating Surface of Boilers 1526 sq ft Is forced draught fitted YES Coal or Oil fired EXHAUST GAS

No. and Description of Boilers ONE SINGLE ENDED Working Pressure 180 LBS/p

Tested by hydraulic pressure to 320 LBS/p Date of test 3.11.49 No. of Certificate 1366 Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2" ROBE (DOUBLE) COCKBURNS IMPROVED

Area of each set of valves per boiler per Rule 4.94 sq in as fitted 6.2832 sq in Pressure to which they are adjusted YES 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 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 boilers 11'-10 1/16 Length 10'-8" Shell plates: Material STEEL Tensile strength 29/33 Tons/p

Thickness 31/32 Are the shell plates welded or flanged NO Description of riveting: circ. seams end DR inter

long. seams TR DOUBLE BUTT STRAPS Diameter of rivet holes in circ. seams 1 1/32 long. seams 1 1/32 Pitch of rivets 3.209 7 1/16

Percentage of strength of circ. end seams plate 67% rivets 42.5% Percentage of strength of circ. intermediate seam plate rivets

Percentage of strength of longitudinal joint plate 86.1% rivets 86.7% combined 89.8% Working pressure of shell by Rules 186 LBS/p

Thickness of butt straps outer 3/4 inner 7/8 No. and Description of Furnaces in each Boiler THREE CORRUGATED DEIGHTON TYPE

Material STEEL Tensile strength 26/30 Tons/p Smallest outside diameter 2'-8 7/8

Length of plain part top bottom Thickness of plates crown 7/16 bottom 7/16 Description of longitudinal joint WELD

Dimensions of stiffening rings on furnace or c.c. bottom NONE Working pressure of furnace by Rules 190 LBS/p

End plates in steam space: Material STEEL Tensile strength 26/30 Tons/p Thickness 1" Pitch of stays 16 1/2" x 15 1/4"

How are stays secured NUTTED IN & OUT Working pressure by Rules 183 LBS/p

Tube plates: Material front STEEL back Tensile strength 26/30 Tons/p Thickness 3/4

Mean pitch of stay tubes in nests 9 1/4 Pitch across wide water spaces 13 1/2 Working pressure front 213 LBS/p back 214 LBS/p

Girders to combustion chamber tops: Material STEEL Tensile strength 29/33 Tons/p Depth and thickness of girder

at centre 6 1/4 x 1 1/4 DOUBLE Length as per Rule 2'-3 1/2 Distance apart 7" No. and pitch of stays

in each 2 2 8 1/2 Working pressure by Rules 190 LBS/p Combustion chamber plates: Material STEEL

Tensile strength 26/30 Tons/p Thickness: Sides 3/4 Back 3/4 Top 3/4 Bottom 3/4

Pitch of stays to ditto: Sides 8 1/2" x 8 Back 9 1/2" x 7 1/4 Top 8 1/2" x 7 Are stays fitted with nuts or riveted over BOTH

Working pressure by Rules 186 LBS/p Front plate at bottom: Material STEEL Tensile strength 26/30 Tons/p

Thickness 1" Lower back plate: Material STEEL Tensile strength 26/30 Tons/p Thickness 1"

Pitch of stays at wide water space 14 1/2 (5) x 7 1/4 Are stays fitted with nuts or riveted over NUTS (margin)

Working pressure 289 LBS/p Main stays: Material STEEL Tensile strength 28/32 Tons/p

Diameter At body of stay 2 3/4 Over threads 2 1/8 No. of threads per inch 6 Area supported by each stay 16 1/2" x 15 1/4"

Working pressure by Rules 218 LBS/p Screw stays: Material STEEL Tensile strength 26/30 Tons/p

Diameter At turned off part 1 1/2 Over threads 1 1/2 No. of threads per inch 9 Area supported by each stay 9 1/2" x 7 1/4"

Working pressure by Rules $183 \frac{1}{2}$ Are the stays drilled at the outer ends ☒ Margin stays: Diameter $1 \frac{3}{4}$
No. of threads per inch 9 Area supported by each stay $12 \times 7 \frac{1}{4}$ Working pressure by Rules $210 \frac{1}{2}$
Tubes: Material STEEL External diameter $2 \frac{1}{2}$ Thickness $9 \frac{1}{16}$ No. of threads per inch 9
Pitch of tubes $3 \frac{7}{8} \times 3 \frac{7}{8}$ Working pressure by Rules $193 \frac{1}{2}$ Manhole compensation: Size of opening
shell plate 20×16 Section of compensating ring $20 \times 3 \frac{1}{2}$ No. of rivets and diameter of rivet holes $50 - 1 \frac{1}{32}$
Outer row rivet pitch at ends $7 \frac{7}{8}$ Depth of flange if manhole flanged $2 \frac{3}{32}$ 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 ☒
Internal diameter ☒ Working pressure by Rules ☒ Thickness of crown ☒ No. and diameter
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
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 ☒ Working pressure as per
Rules ☒ Pressure to which the safety valves are adjusted ☒ Hydraulic test pressure
tubes ☒ forgings and castings ☒ and after assembly in place ☒ Are drain cocks
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 THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED

Dates of Survey while building { During progress of work in shops - - - SEP. 21, OCT. 3, 12, 15, 21, NOV. 2, 2, 8
During erection on board vessel - - - /
Are the approved plans of boiler and superheater forwarded herewith 15.7.4
(If not state date of approval.)
Total No. of visits 8

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 boiler has been constructed under special survey in accordance with the approved plans. The materials & workmanship are good. The boiler has been despatched to Messrs R & W Hawthorn Leslie & Co Ltd Newcastle to be fitted on board.

Survey Fee 127 MN £ 25 : 8 : 0 When applied for 16 NOV 1949
Travelling Expenses (if any) £ : : When received 19

J. A. Orle

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 31 MAR 1950

Committee's Minute

Assigned See P.E. Mch. rpt.



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Foundation