

RECEIVED

NEWCASTLE-ON-TYNE, NO. 106343

3 MAR 1949

REPORT ON BOILERS.

No. 105984

N D.O.

Received at London Office. 16 MAR 1949

Date of writing Report 27-2-1949 When handed in at Local Office 14 MAR 1949

Port of NEWCASTLE-ON-TYNE

No. in Reg. Book. Survey held at Wallsend

Date, First Survey 17/8/48 Last Survey 14/1/49

on the MOTOR TANKER LATIRUS

(Number of Visits.....7.....)

Gross 6475.65
Net 3608.86

Master Built at Hebburn By whom built R.W. Hawthorn Leslie & Co Yard No. 699 When built 1949- mo

Engines made at St. Peter's, Newcastle By whom made R.W. Hawthorn Leslie & Co Engine No. 4060 When made 1949

DONKEY Boiler made at Wallsend By whom made N.E. Mar Eng Co. (1938) Ltd. Boiler No. 3186 When made 1949

Nominal Horse Power } 3453 = 288 MN Owners Anglo Saxon Petroleum Co Port belonging to LONDON.
of Donkey BLR 12

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles Ltd - Furnace tube plates by Appleby & Fotheringham Letter for Record S.

Total Heating Surface of Boiler 3453 sq ft 3459 sq ft Is forced draught fitted Yes Coal or Oil fired OIL FIRED

No. and Description of Boiler ONE SINGLE ENDED. Working Pressure 180 LB/SQ IN

Tested by hydraulic pressure to 320 lb Date of test 24-2-49 No. of Certificate N/329 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 of 3" Cockburn's Imp High Lift

Area of each set of valves per boiler per Rule 11.13 sq in as fitted 14.12 Pressure to which they are adjusted Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NO MAIN 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 16'-0 3/8" Length 12'-6" (MEAN) Shell plates: Material M.Stl Tensile strength 28 to 32 tons

Thickness 1 5/16" Are the shell plates welded or flanged NO Description of riveting: circ. seams end D.RIV. OVERLAP.

long. seams T.Riv. dble butt straps Diameter of rivet holes in circ. seams 1 3/8" Pitch of rivets 4" inter NIL

Percentage of strength of circ. end seams plate 65.6 rivets 46.4 Percentage of strength of circ. intermediate seam plate rivets

Percentage of strength of longitudinal joint plate 85.52 rivets 91.7 Working pressure of shell by Rules 180.8 LB/SQ IN

combined 89.34

Thickness of butt straps outer 1" inner 1 1/8" No. and Description of Furnaces in each Boiler 3 C.F. (Monson type)

Material M.Stl Tensile strength 26-30 tons Smallest outside diameter 3'-11 7/16"

Length of plain part top bottom Thickness of plates crown 19/32" bottom Description of longitudinal joint FIRE WELD.

Dimensions of stiffening rings on furnace or c.c. bottom NIL Working pressure of furnace by Rules 181 lb

End plates in steam space: Material M.Stl Tensile strength 26-30 tons Thickness 1 1/32" Pitch of stays 23" x 20"

How are stays secured NUTTED IN + OUT Working pressure by Rules 182 lb

Tube plates: Material front M.Stl back M.Stl Tensile strength 26-30 tons Thickness front 29/32" back 25/32"

Mean pitch of stay tubes in nests 9 7/8" Pitch across wide water spaces 13 3/4" x 7 3/4" Working pressure front 225 lb back 223 lb

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

at centre 11" x 7/8" double Length as per Rule 40" Distance apart 10 1/2" No. and pitch of stays

in each 3 at 9 1/2" pitch Working pressure by Rules 196 lb Combustion chamber plates: Material M.Stl

Tensile strength 26-30 tons Thickness: Sides 3/4" Back 3/4" Top 3/4" Bottom 3/4"

Pitch of stays to ditto: Sides 9 1/2" x 7 1/4" Back 9" x 7 1/4" Top 10 1/2" x 9 1/2" Are stays fitted with nuts or riveted over C.C. BACK MARGINAL ARE WITH NUTS. REMAINDER ARE RIVETED OVER.

Working pressure by Rules 185 lb (MIN) Front plate at bottom: Material M.Stl Tensile strength 26-30 tons Thickness 29/32"

Lower back plate: Material M.Stl Tensile strength 26-30 tons Thickness 7/8"

Pitch of stays at wide water space 14 7/8" x 9" Are stays fitted with nuts or riveted over CORNER AND MARGINAL ARE WITH NUTS. REMAINDER ARE RIVETED OVER.

Working pressure 212 lb (MIN) Main stays: Material M.Stl Tensile strength 28 to 32 tons

Diameter At body of stay 3 1/2" No. of threads per inch 6 Area supported by each stay 460 sq in

Over threads 3 1/2" Screw stays: Material M.Stl Tensile strength 26-30 tons

Working pressure by Rules 200 lb Diameter At turned off part 2, 1 3/4, 1 1/2" No. of threads per inch 9 Area supported by each stay C.C. TOP 99.75 C.C. BACK (1/2) 69.2 C.C. SIDES 68.9

Over threads 2, 1 3/4, 1 1/2"

CONTINUED OVER.

003581-003590-0093

CONTINUATION OF RPT ON DONKEY BOILER. N.E. MAR. NO 3186.

FOR HAWTHORN LESLIE'S YARD NO 699

Working pressure by Rules 182 lb Are the stays drilled at the outer ends No Margin stays: Diameter At turned off part 1 3/4" 2"
 No. of threads per inch 9 Area supported by each stay 100.6 sq ins Working pressure by Rules 180 lb
 Tubes: Material S.D. STEEL External diameter 2 3/4" Thickness 9 W.G. No. of threads per inch 9
 Pitch of tubes 3 7/8" x 4" Working pressure by Rules PLAIN TUBES 215 lb, STAY 210 lb (MIN) Manhole compensation: Size of opening in shell plate 20 1/2" x 16 1/2" Section of compensating ring 17" x 1 3/8" No. of rivets and diameter of rivet holes 34 of 1 1/2" DIA.
 Outer row rivet pitch at ends 10 1/2" Depth of flange if manhole flanged 4" Steam Dome: NIL
 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 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 NIL Manufacturers of Steel forgings
 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 forgings and 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 YES.

THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.
 The foregoing is a correct description,

gus lambert
 DIRECTOR

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1948 AUG. 17, 23. SEPT. 8, 15, 16, 17, 1949 JAN. 14 Are the approved plans of boiler and superheater forwarded herewith Yes.
 { During erection on board vessel - - } approved 13-5-48
 Total No. of visits 7

Is this Boiler a duplicate of a previous case YES. If so, state Vessel's name and Report No. M.V. LATIA NMC Rpt. 103754
H.L. Yard No 684 (ENG No 4022)
N.E. MAR BLR No 3124

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

This S.E. Donkey Boiler has been constructed under Special Survey in accordance with the approved plan and the Society's Rules. The materials and workmanship are good.

The Boiler has been sent to Hebburn to be fitted on board H. Leslie's Yard No 699.

SURVEY OF MACHINERY.
NEWCASTLE-ON-TYNE.

NO. OF VISITS 103

This Boiler has now been satisfactorily fitted on board R.W. Hawthorn Leslie's 60. Ld. vessel, yard No 699. (Engine No 4060) in accordance with the Rules. The safety valves adjusted under steam to 180 lbs/sq. in., and accumulation test carried out with satisfactory results. Compression rings:- Piston 1/32" Ap. 1/16".

SURVEYOR TO LLOYD'S REGISTER.
NEWCASTLE-ON-TYNE.

Fee on June 1947 Scale

Survey Fee for 288 MN £ 53-16/-

Travelling Expenses (if any) £

When applied for, 15 MAR 1949

When received

A. Lambert

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 12 AUG 1949

Assigned

See F.E. Welch. rpt.



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