

DONKEY. REPORT ON BOILERS.

No. 95349

AUG 27 1937

Received at London Office
NEWCASTLE-ON-TYNE

Date of writing Report 16/8/37 19 When handed in at Local Office 16/8/37 19 Port of

No. in Survey held at Newcastle on Tyne Date, First Survey (18 Feb 31) Last Survey 13/8/37 19

on the Steel Motor Tanker "YENANGYAUNG" (Number of Visits) Tons {Gross 5447 Net 3031

Master J.M. Built at Newcastle on Tyne By whom built Swan, Hunter & Wigham Richardson Ltd Ward No. 1531 When built 1937

Engines made at Sunderland By whom made Wm Duxford & Sons Engine No. 198 When made 1937

Boilers made at Newcastle on Tyne By whom made Swan, Hunter & Wigham Richardson Ltd Boiler No. 1538 When made 1937

Key Bl. Nominal Horse Power $\frac{1715}{15} = 115$. Owners Burma Oil Coys. Port belonging to RANGOON NEWCASTLE

TWO FURNACE OIL FIRED MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Steel Coy of Scotland + Furnace plates by Parkhead I.S.C. Rotherham (Letter for Record S.)

Total Heating Surface of Boilers 1715 sq. ft. Is forced draught fitted Yes Coal or Oil fired Oil fired

No. and Description of Boilers One Single Ended "Scotch" Multitubular Working Pressure 150 lb.

Tested by hydraulic pressure to 275 lb. Date of test 18/5/37 No. of Certificate 717 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler Oil fired No. and Description of safety valves to each boiler Two of 2 1/2" Cockburn's Improved High Lift Spring Loaded

Area of each set of valves per boiler {per Rule 7.58 sq. ins. as fitted 7.96 sq. ins. Pressure to which they are adjusted 150 lb. 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 boilers are fitted.

Smallest distance between boilers or uptakes and bunkers or woodwork 3'-2 5/8" Is oil fuel carried in the double bottom under boilers Yes

Smallest distance between shell of boiler and tank top plating 3'-2 5/8" Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 12'-1 3/8" Length 11'-6" Shell plates: Material Steel Tensile strength 30/34 tons

Thickness 13/16" Are the shell plates welded or flanged No. Description of riveting: circ. seams end D.R. Lap. inter. none

Long. seams T.R. Dble butt strap Diameter of rivet holes in {circ. seams 15/16" long. seams 7/8" Pitch of rivets {3.082" 6.125"

Percentage of strength of circ. end seams {plate 69.58 rivets 42.25 Percentage of strength of circ. intermediate seam {plate None rivets None

Percentage of strength of longitudinal joint {plate 85.71 rivets 86.80 combined 88.78 Working pressure of shell by Rules 154 lb.

Thickness of butt straps {outer 5/8" inner 3/4" No. and Description of Furnaces in each Boiler Two - Dighton Corrugated 2cf

Material Steel Tensile strength 26/30 tons Smallest outside diameter 42 1/2"

Length of plain part {top 4" at throat bottom 2'-6" c.c. bott. Thickness of plates {crown 15/32" (furnace) bottom 5/8" c.c. bottom Description of longitudinal joint fire welded

Dimensions of stiffening rings on furnace or c.c. bottom none Working pressure of furnace by Rules 159 lb.

End plates in steam space: Material Steel Tensile strength 26/30 tons Thickness 29/32" Pitch of stays 16 x 15 1/2" max

How are stays secured Nuts inside + outside Working pressure by Rules 151 lb.

Tube plates: Material {front } steel back } Tensile strength {26/30 tons Thickness {29/32" 11/16"

Lean pitch of stay tubes in nests 9 1/16" max Pitch across wide water spaces 13 1/2" Working pressure {front 171 lb back 178 lb

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

at centre 8" x 5/8" x 2 Length as per Rule 32 19/32" Distance apart 8 7/16" No. and pitch of stays

on each 2 at 10" Working pressure by Rules 153 lb. Combustion chamber plates: Material Steel

Tensile strength 26/30 tons Thickness: Sides 5/8" Back 23/32" Top 5/8" Bottom 5/8"

Pitch of stays to ditto: Sides 10" x 8 3/8" Back 8 1/2" x 9 1/4" Top 10" x 8 1/2" Are stays fitted with nuts or riveted over with nuts

Working pressure by Rules 153 lb. Front plate at bottom: Material Steel Tensile strength 26/30 tons

Thickness 29/32" Lower back plate: Material Steel Tensile strength 26/30 tons Thickness 29/32"

Pitch of stays at wide water space 15 3/4" x 8 1/2" Are stays fitted with nuts or riveted over NUTS: BOTH ENDS. REMAINDER OF BACK STAYS ARE RIVETED INSIDE C.C. & NUTS OUTSIDE.

Working Pressure 209 lb. Main stays: Material Steel Tensile strength 28/32 tons

Diameter {Over threads } 2 1/2" No. of threads per inch Six Area supported by each stay (17 x 15 3/8") - 3.67

Working pressure by Rules 151 lb. Screw stays: Material Steel Tensile strength 26/30 tons

Diameter {Over threads } 1 1/2" No. of threads per inch 9 Area supported by each stay (10 x 8 7/16) - 1.45



