

REPORT ON BOILERS.

No. 71132

Received at London Office. 16 OCT 1946

Date of writing Report 22-8-1946 When handed in at Local Office 12-10-1946 Port of GLASGOW.

No. in Reg. Book. Survey held at Paisley Date, First Survey 8.2.46 Last Survey 26-9-1946

on the NON PROPELLING BUCKET DREDGER "TAFF" (Number of Visits 25) Tons { Gross 607 Net 441 }

Master Paisley Built at Paisley By whom built Messrs Heming & Ferguson Yard No. 734 When built 1946

Engines made at Paisley By whom made Messrs Heming & Ferguson Ltd Engine No. 734 When made 1946

Boilers made at Paisley By whom made Messrs A.F. Craig & Co Ltd Boiler No. 884 When made 1946

Nominal Horse Power GREAT WESTERN RAILWAY Port belonging to LONDON

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles Ltd (Letter for Record S. ✓)

Total Heating Surface of Boilers 2014.5 ✓ Is forced draught fitted No ✓ Coal or Oil fired COAL ✓

No. and Description of Boilers 1-S ENDED. ✓ Working Pressure 185 lb/sq in ✓

Tested by hydraulic pressure to 327.5 lb Date of test 26-3-46 No. of Certificate 22153 Can each boiler be worked separately -

Area of Firegrate in each Boiler 64.5 ✓ No. and Description of safety valves to each boiler 1-Double Spring 2 1/4" dia I.H.L.

Area of each set of valves per boiler { per Rule 6.38 ✓ as fitted 4.95 ✓ } Pressure to which they are adjusted 185 lb ✓ 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 12" ✓ Is oil fuel carried in the double bottom under boilers No ✓

Smallest distance between shell of boiler and tank top plating OPEN FLOORS Is the bottom of the boiler insulated No ✓

Largest internal dia. of boilers 14'-6" Length 11'-3" (MEAN) Shell plates: Material Steel ✓ Tensile strength 29-33 Tons ✓

Thickness 13/16" Are the shell plates welded or flanged No ✓ Description of riveting: circ. seams { end DR ✓ inter 3.44" ✓ } long. seams T.R.D.B.S. ✓ Diameter of rivet holes in { circ. seams 1 1/4" ✓ long. seams 1 1/4" ✓ } Pitch of rivets 8.45" ✓

Percentage of strength of circ. end seams { plate 63.4 ✓ rivets 44.6 ✓ } Percentage of strength of circ. intermediate seam { plate 85.7 ✓ rivets 87.8 ✓ } Working pressure of shell by Rules -

Percentage of strength of longitudinal joint { plate 88.96 ✓ rivets 88.96 ✓ }

Thickness of butt straps { outer 29/32" ✓ inner 1 1/32" ✓ } No. and Description of Furnaces in each Boiler 3-Deighton ✓

Material Steel ✓ Tensile strength 26-30 Tons ✓ Smallest outside diameter 3'-4 1/8" ✓

Length of plain part { top ✓ bottom ✓ } Thickness of plates { crown 9/16" ✓ bottom 9/16" ✓ } Description of longitudinal joint weld ✓

Dimensions of stiffening rings on furnace or c.c. bottom ✓ Working pressure of furnace by Rules ✓

End plates in steam space: Material Steel ✓ Tensile strength 26-30 Tons ✓ Thickness 13/64" ✓ Pitch of stays 1'-6" x 1'-4" ✓

How are stays secured DNuts ✓ Working pressure by Rules ✓

Tube plates: Material { front Steel ✓ back Steel ✓ } Tensile strength 26-30 Tons ✓ Thickness 7/8" ✓

Mean pitch of stay tubes in nests 9 3/4" ✓ Pitch across wide water spaces 1'-1 1/2" ✓ Working pressure { front ✓ back ✓ }

Girders to combustion chamber tops: Material Steel ✓ Tensile strength 28-32 Tons ✓ Depth and thickness of girder at centre 9" 2 @ 4 1/4" ✓ Length as per Rule 2'-8" ✓ Distance apart 8 1/2" ✓ No. and pitch of stays in each 3 @ 8" ✓ Working pressure by Rules ✓

Tensile strength 26-30 Tons ✓ Thickness: Sides 5/8" ✓ Back 2 1/32" ✓ Top 5/8" ✓ Bottom 7/8" ✓

Pitch of stays to ditto: Sides 8 1/2" x 8" ✓ Back 8 7/8" x 9" ✓ Top 8" x 8 1/2" ✓ Are stays fitted with nuts or riveted over Nuts in c.c.s. Nuts in face plates ✓

Working pressure by Rules ✓ Front plate at bottom: Material Steel ✓ Tensile strength 26-30 Tons ✓

Thickness 7/8" ✓ Lower back plate: Material Steel ✓ Tensile strength 26-30 Tons ✓ Thickness 25/32" ✓

Pitch of stays at wide water space 1'-1 1/2" x 9" ✓ Are stays fitted with nuts or riveted over Nuts ✓

Working pressure ✓ Main stays: Material Steel ✓ Tensile strength 28-32 Tons ✓

Diameter { At body of stay 3" ✓ or Over threads 3" ✓ } No. of threads per inch 6 ✓ Area supported by each stay - ✓

Working pressure by Rules ✓ Screw stays: Material Steel ✓ Tensile strength 26-30 Tons ✓

Diameter { At turned off part 1 3/4" ✓ or Over threads 1 3/4" ✓ } No. of threads per inch 9 ✓ Area supported by each stay - ✓

Dates of Survey while building	During progress of work in shops - -	1946 Feb 8, 12, 19, 25, Mar 5, 22, 24, May 3, 8, 10	Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)	27-6-45
	During erection on board vessel - -	15, 16, 31, Jun 7, 11, 13, 28, Jul 26, Sep 9, 11, 17, 23		
			Total No. of visits	25

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey, in accordance with the approved plans and Rule Requirements. The materials and workmanship are good. The boiler securely fitted on board, safety valves adjusted under steam to 185 lbs/sq, & accumulation test satisfactory.

R. J. Catterbe

GLASGOW 10 OCT 1946

Assigned... SEE ACCOMPANYING MACHINERY REPORT.



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