

RECEIVED
Rpt. 5a.
6 OCT 1948
IN D.O.

REPORT ON BOILERS.

No. 18616.
23 OCT 1948

Received at London Office.....

Date of writing Report 18-10- 19 48. When handed in at Local Office 22nd Oct. 19 48. Port of MIDDLESBROUGH.
Survey held at STOCKTON-on-TEES. Date, First Survey 6th Aug. Last Survey 15th Oct. 19 48.
on the "BJORN STANGE" (Number of Visits 6)
Master Sunderland Built at Sunderland By whom built Wm. Leyland & Sons Ltd. Yard No. 482 Tons { Gross.....
Engines made at Sunderland By whom made Wm. Leyland & Sons Ltd. Engine No. 267 When built 1949 Net.....
Boilers made at Stockton-on-Tees By whom made Stockton Chemical Engineers & Riley Boilers Ltd. Boiler No. 7092 When made 1948.
Nominal Horse Power..... Owners..... Port belonging to.....

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Appleby Frodingham Steel Co. Ltd. (Letter for Record.....)
Total Heating Surface of Boilers 1700 sq. feet. Is forced draught fitted Cold Air F.D. Coal or Oil fired Oil & Ex. Gas
No. and Description of Boilers 1 S.E. Multitubular. Working Pressure 150 lb.
Tested by hydraulic pressure to 275 lb. Date of test 15/10/48 No. of Certificate 7258 Can each boiler be worked separately.....
Area of Firegrate in each Boiler..... No. and Description of safety valves to each boiler 1 - 2 1/2 D.S. H.L.
Area of each set of valves per boiler { per Rule 10.3 as fitted 11.88 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.....
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 Yes.
Largest internal dia. of boilers 11'-10 5/8" Length 11'-6" Shell plates: Material Steel Tensile strength 29-35
Thickness 13/16" Are the shell plates welded or flanged No Description of riveting: circ. seams { end DR. L. inter. 3.106"
Long. seams TR.-DBS Diameter of rivet holes in { circ. seams 1.1/16" Pitch of rivets { 6 1/2"
Percentage of strength of circ. end seams { plate 65.8% rivets 55.1 Percentage of strength of circ. intermediate seam { plate..... rivets.....
Percentage of strength of longitudinal joint { plate 85.6 rivets 97.0 Working pressure of shell by Rules 152 lbs.
Thickness of butt straps { outer 5" inner 4" No. and Description of Furnaces in each Boiler 2 - Deighton
Material Steel Tensile strength 26-30 Smallest outside diameter 3'-6 1/2"
Length of plain part { top..... bottom..... Thickness of plates { crown 15/32" bottom..... Description of longitudinal joint welded
Dimensions of stiffening rings on furnace or c.c. bottom..... Working pressure of furnace by Rules 159 lbs.
Stays in steam space: Material Steel Tensile strength 26-30 Thickness 13/16" Pitch of stays 16 1/2 x 15"
Are stays secured Double nuts & washers, stays screwed into both plates. Working pressure by Rules 150 lbs.
Stays plates: Material Steel Tensile strength 26-30 Thickness { 3"
Can pitch of stay tubes in nests 9 1/2" Pitch across wide water spaces 13 1/2" Working pressure { front 167 lbs. back 154 lbs.
Risers to combustion chamber tops: Material Steel Tensile strength 28-32 Depth and thickness of girder
centre 7" x 1 1/2" Length as per Rule 2'-4.5/32" Distance apart 9 1/2" No. and pitch of stays
each Solid welded Working pressure by Rules 159 lbs. Combustion chamber plates: Material Steel
Tensile strength 26-30 Thickness: Sides 21/32" Back 19/32" Top 21/32" Bottom 21/32"
Pitch of stays to ditto: Sides 10" x 9" Back 9" x 9" Top - Are stays fitted with nuts or riveted over nuts
Working pressure by Rules 150 lbs. Front plate at bottom: Material Steel Tensile strength 26-30
Thickness 13/16" Lower back plate: Material Steel Tensile strength 26-30 Thickness 3"
Pitch of stays at wide water space 13 1/2" Are stays fitted with nuts or riveted over nuts
Working pressure 162 lbs. Main stays: Material Steel Tensile strength 28-32
At body of stay..... No. of threads per inch 6 Area supported by each stay 247.5 sq. in.
Over threads..... Screw stays: Material Steel Tensile strength 26-30
Working pressure by Rules 164 lbs. At turned off part..... No. of threads per inch 9 Area supported by each stay 81 sq. in.
Over threads.....

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MAY 1949
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No. in
Reg. Book.

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Owners.....

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Generators

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