

REPORT ON BOILERS.

No. 13983.

Received at London Office 20 JUN 1930

Date of writing Report 18-6-1930 When handed in at Local Office 19-6-1930 Port of SOUTHAMPTON.

No. in Reg. Book. Survey held at Southampton Date, First Survey 2-5-30 Last Survey 13-6-1930

on the Steel Barge JAMES ROCKBREAKER (Number of Visits 5) Tons {Gross Net

Master Built at Leeuwarden By whom built J. Meyer's SB Co Yard No. 562 When built 1930.

Engines made at Cyone By whom made Engine No. When made

Boilers made at Harlepool. By whom made Richardson Blackpath & Co. Boiler No. D173. When made 1927.

Nominal Horse Power Owners James Dredging Tugs & Transport Co Ltd Port belonging to London.

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Dalzell Steel & Iron Works & Leeds Forge Co Ltd (Letter for Record S)

Total Heating Surface of Boilers 1264 sq ft Is forced draught fitted No Coal or Oil fired Coal.

No. and Description of Boilers One single ended (S.B.) Working Pressure 100 lbs/sq in

Tested by hydraulic pressure to 200 lbs/sq in Date of test 26-5-30 No. of Certificate None Can each boiler be worked separately

Area of Firegrate in each Boiler 33 sq ft No. and Description of safety valves to each boiler 2 - Spring loaded High Lift 2 1/2" dia

Area of each set of valves per boiler (per Rule 13.74 x 3 = 9.163 / as fitted 9.85) Pressure to which they are adjusted 100 lbs/sq in 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

Smallest distance between boilers or uptakes and bunkers or woodwork Over 2 feet Is oil fuel carried in the double bottom under boilers No.

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

Largest internal dia. of boilers 11'-4" (136") Length 10'-0" (mean) Shell plates: Material Steel Tensile strength 28/32 tons/sq in

Thickness 30/32" Are the shell plates welded or flanged No Description of riveting: circ. seams {end D.R. lap inter. None

long. seams D.R. Butt straps Diameter of rivet holes in {circ. seams 1 3/32" long. seams 1 1/32" Pitch of rivets {3 1/2" 5 1/8"

Percentage of strength of circ. end seams {plate 68.8% rivets 47.1% Percentage of strength of circ. intermediate seam {plate rivets

Percentage of strength of longitudinal joint {plate 81.5% rivets 78.8% combined 89.1% Working pressure of shell by Rules 165 lbs/sq in

Thickness of butt straps {outer 28/32" inner 28/32" No. and Description of Furnaces in each Boiler 2 - Morrison Suspension

Material Steel Tensile strength 26/30 tons/sq in Smallest outside diameter 38 1/2"

Length of plain part {top bottom Corrugated Thickness of plates {crown 16/32 bottom 32/32 Description of longitudinal joint Welded

Dimensions of stiffening rings on furnace or c.c. bottom None Working pressure of furnace by Rules 187 lbs/sq in

End plates in steam space: Material Steel Tensile strength 26/30 tons/sq in Thickness 33/32" Pitch of stays Vanport - Sa dog.

How are stays secured Double nuts & washers. Working pressure by Rules 148 lbs/sq in

Tube plates: Material {front back Steel Tensile strength {26/30 tons/sq in Thickness {26/32 25/32

Mean pitch of stay tubes in nests 10 13/16" Pitch across wide water spaces 13 1/4" x 8 1/2" Working pressure {front 182 lbs/sq in back 187 lbs/sq in

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

at centre 7 1/4" x (26/32 x 2) Length as per Rule 29 3/32" Distance apart 9 1/4" No. and pitch of stays

in each 3 - 6 3/4" Working pressure by Rules 169 lbs/sq in Combustion chamber plates: Material Steel

Tensile strength 26/30 tons/sq in Thickness: Sides 18/32" Back 19/32" Top 18/32" Bottom 18/32"

Pitch of stays to ditto: Sides 7" x 9" Back 8" x 8 1/2" Top 6 3/4" x 9 1/4" Are stays fitted with nuts or riveted over No

Working pressure by Rules 177 lbs/sq in Front plate at bottom: Material Steel Tensile strength 26/30 tons/sq in

Thickness 26/32" Lower back plate: Material Steel Tensile strength 26/30 tons/sq in Thickness 25/32"

Pitch of stays at wide water space 13 1/4" x 8" Are stays fitted with nuts or riveted over No

Working Pressure 203 lbs/sq in Main stays: Material Steel Tensile strength 28/32 tons/sq in

Diameter {At body of stay, or Over threads 2 3/4" + 2 1/2" No. of threads per inch 6 Area supported by each stay 3220 + 2620

Working pressure by Rules 169 lbs/sq in Screw stays: Material Steel Tensile strength 26/30 tons/sq in

Diameter {At turned off part, or Over threads 1 1/2" No. of threads per inch 9 Area supported by each stay 6850

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



