

## REPORT ON BOILERS.

No. 20231

Date of writing Report 1-4-40 When handed in at Local Office 1-4-40 Port of Aberdeen  
No. in Reg. Book. Survey held at Aberdeen Date, First Survey 3.4.39 Last Survey 28.3.1940  
on the "Bois Rose" (Number of Visits 34.) Gross 1373.88 Tons Net 837.38  
Master Built at Aberdeen By whom built Hall Russell & Co. Ltd. Yard No. 751 When built 1940  
Engines made at Aberdeen By whom made Hall Russell & Co. Ltd. Engine No. 751 When made 1940  
Boilers made at Aberdeen By whom made Hall Russell & Co. Ltd. Boiler No. 751 When made 1940  
Nominal Horse Power 207 Owners Societe Anonyme Les Pecheries de Fecamp Port belonging to Fecamp.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Steel Company of Scotland Ltd.  
Total Heating Surface of Boilers 3240 sq. ft. Is forced draught fitted Yes Coal or Oil fired Oil  
No. and Description of Boilers Two - single ended. Working Pressure 215 lb./sq. in.  
Tested by hydraulic pressure to 372.5 lb./sq. in. Dates of test 20.10.39 & 26.10.39 No. of Certificate 1141 & 1142 Can each boiler be worked separately Yes  
Area of Firegrate in each Boiler No. and Description of safety valves to each boiler Two Spring loaded  
Area of each set of valves per boiler {per Rule 10.57 sq. in. as fitted 11.80 sq. in. Pressure to which they are adjusted 215 lb./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  
Smallest distance between boilers or uptakes and bunkers or woodwork 2' 3" Is oil fuel carried in the double bottom under boilers Yes  
Smallest distance between shell of boiler and tank top plating 1' 8" Is the bottom of the boiler insulated Yes  
Largest internal dia. of boilers 12' 9" Length 11' 0" Shell plates: Material Mild Steel Tensile strength 29/32 tons/sq. in.  
Thickness 17/32" Are the shell plates welded or flanged No Description of riveting: circ. seams {end 37/8" inter 37/8" long. seams 15/16" Pitch of rivets 8 15/16"  
Percentage of strength of circ. end seams {plate 66.2% rivets 45.45% Percentage of strength of circ. intermediate seam {plate 85.31% rivets 92.47% Working pressure of shell by Rules 217.56 lb./sq. in.  
Percentage of strength of longitudinal joint {plate 89.16% rivets 89.16%  
Thickness of butt straps {outer 1 3/4" inner 1 3/4" No. and Description of Furnaces in each Boiler 2 - Meriam corrugated.  
Material Mild Steel Tensile strength 26/30 tons/sq. in. Smallest outside diameter 3' 10"  
Length of plain part {top 4 1/4" bottom 4 1/4" Thickness of plates {crown 1 1/16" bottom 1 1/16" Description of longitudinal joint Welded  
Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 219.6 lb./sq. in.  
End plates in steam space: Material Mild Steel Tensile strength 26/30 tons/sq. in. Thickness 1 1/16" Pitch of stays 17 3/4" x 15 3/8"  
How are stays secured Double nuts & washers Working pressure by Rules 218.6 lb./sq. in.  
Tube plates: Material {front Steel back Steel Tensile strength 26/30 tons/sq. in. Thickness 31/32"  
Mean pitch of stay tubes in nests 10.85" Pitch across wide water spaces 14 1/2" x 9 1/4" Working pressure {front 219.9 lb./sq. in. back 218.2 lb./sq. in.  
Girders to combustion chamber tops: Material Mild Steel Tensile strength 29/32 tons/sq. in. Depth and thickness of girder 8" x 1 3/4" Length as per Rule 31 15/32" Distance apart 9 5/16" No. and pitch of stays 2 @ 9 7/8"  
Tensile strength 26/30 tons/sq. in. Thickness: Sides 25/32" Back 1 1/16" Top 25/32" Bottom 25/32"  
Pitch of stays to ditto: Sides 7 7/16" x 9 7/8" Back 9" x 8 1/8" Top 9 7/8" x 9 5/16" Are stays fitted with nuts or riveted over Nuts  
Working pressure by Rules 224.3 lb./sq. in. Front plate at bottom: Material Mild Steel Tensile strength 26/30 tons/sq. in.  
Thickness 31/32" Lower back plate: Material Mild Steel Tensile strength 26/30 tons/sq. in. Thickness 29/32"  
Pitch of stays at wide water space 14 1/2" x 8 1/8" Are stays fitted with nuts or riveted over Nuts  
Working Pressure 243.5 lb./sq. in. Main stays: Material Mild Steel Tensile strength 29/32 tons/sq. in.  
Diameter {At body of stay 2 7/8" x 3" diam. No. of threads per inch 6 Area supported by each stay 262 ~ 295 sq. in.  
Working pressure by Rules 234.5 ~ 227.8 lb./sq. in. Screw stays: Material Iron Tensile strength 21 1/2 tons/sq. in.  
Diameter {At turned off part 1 3/4" Top 2" No. of threads per inch 9 Area supported by each stay Top 92.0 sq. in. back 73.2 sq. in.



