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Rpt. 5a.

REPORT ON BOILERS.

No.

Received at London Office FEB 16 1938

Date of writing Report 1932 When handed in at Local Office 1932 Port of Rotterdam

No. in Survey held at Flushing Date, First Survey 19.11.33 Last Survey 17.12.1937
Reg. Book. 350488 on the M. H. "Opalia" (Number of Visits 17.) Tons { Gross 6195 Net 3596

Master Van der Meer Built at Amsterdam By whom built Ved Dok My Yard No. 67 When built 1930
Engines made at Amsterdam By whom made H. J. Worp Engine No. 707 (see letter) When made 1930
Boilers made at Flushing By whom made Hon Mr. De Schelde Boiler No. 1043 When made 1937
Nominal Horse Power 377 Owners Anglo Saxon Petroleum Co Ltd. Port belonging to London.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel The Steel Co of Scotland (Letter for Record 5)

Total Heating Surface of Boilers 2560 sq Is forced draught fitted yes Coal or Oil fired Oil

No. and Description of Boilers One multitubular marine boiler Working Pressure 180 lb

Tested by hydraulic pressure to 320 lb Date of test 17.12.37 No. of Certificate 1005 Can each boiler be worked separately no

Area of Firegrate in each Boiler no No. and Description of safety valves to each boiler 2 spring loaded
Area of each set of valves per boiler per Rule as fitted 90 mm Pressure to which they are adjusted 100 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

Smallest distance between boilers or uptakes and bunkers or woodwork Over 6 feet Is oil fuel carried in the double bottom under boilers no
Smallest distance between shell of boiler and tank top plating Side of motor room Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 4400 mm Length 3468 mm Shell plates: Material S. M. Steel Tensile strength 46.8-52 kg/mm²
Thickness 19 mm Are the shell plates welded Welded at outer ends Description of riveting: circ. seams cap 2 x riv inter. no

long. seams Double butt straps 3 x riv Diameter of rivet holes in circ. seams 30 mm Pitch of rivets 87 mm
Percentage of strength of circ. end seams { plate 65% rivets 50% Percentage of strength of circ. intermediate seam { plate no rivets no

Percentage of strength of longitudinal joint { plate 85% rivets 85% combined 85% Working pressure of shell by Rules 12.8 kg/cm²

Thickness of butt straps { outer 25 mm inner 25 mm No. and Description of Furnaces in each Boiler 3 Morrison patent

Material S. M. Steel Tensile strength 41.47 kg/mm² Smallest outside diameter 1130 mm
Length of plain part { top no bottom no Thickness of plates { crown 15 mm bottom 15 mm Description of longitudinal joint Welded

Dimensions of stiffening rings on furnace or c.c. bottom no Working pressure of furnace by Rules 13.22 kg/cm²

End plates in steam space: Material S. M. Steel Tensile strength 41.47 kg/mm² Thickness 29.5 mm Pitch of stays 440-410 mm
How are stays secured Screwed in plates with nuts outside Working pressure by Rules 12.65 kg/cm²

Tube plates: Material { front S. M. Steel back S. M. Steel Tensile strength { front 41.47 kg/mm² back 41.47 kg/mm² Thickness { front 23 mm back 22 mm

Mean pitch of stay tubes in nests 196 x 300 mm Pitch across wide water spaces 360 mm Working pressure { front 17.8 kg/cm² back no

Girders to combustion chamber tops: Material S. M. Steel Tensile strength 44.50 kg/mm² Depth and thickness of girder at centre 220 x 1 x 19 mm Length as per Rule 776 mm Distance apart 220 mm No. and pitch of stays in each 3 at 200 mm Working pressure by Rules 17.2 kg/cm² Combustion chamber plates: Material S. M. Steel

Tensile strength 41.47 kg/mm² Thickness: Sides 18 mm Back 19 mm Top 18 mm Bottom 25 mm
Pitch of stays to ditto: Sides 250 mm Back 200 x 195 mm Top 200 x 220 mm Are stays fitted with nuts or riveted over Riveted over

Working pressure by Rules 15.3 kg/cm² Front plate at bottom: Material S. M. Steel Tensile strength 41.47 kg/mm²
Thickness 23 mm Lower back plate: Material S. M. Steel Tensile strength 41.47 kg/mm² Thickness 23 mm

Pitch of stays at wide water space 360 mm Are stays fitted with nuts or riveted over Fitted with nuts

Working Pressure 17.2 kg/cm² Main stays: Material S. M. Steel Tensile strength 44.50 kg/mm²

Diameter { At body of stay, 3" No. of threads per inch 9 Area supported by each stay 19000 mm²
Over threads 3 1/4" Working pressure by Rules 15.5 kg/cm² Screw stays: Material S. M. Steel Tensile strength 41.47 kg/mm²

Diameter { At turned off part, 1 3/8" No. of threads per inch 9 Area supported by each stay 40000 mm²
Over threads 1 1/2"



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