

REPORT ON BOILERS.

No. 11375

Received at London Office 14 SEP 1936

Date of writing Report 8/9/36 When handed in at Local Office 11/9/36 Port of Trieste

No. in Reg. Book. 84182 Survey held at Newcastle & Monfalcone Date, First Survey July 13 Last Survey Aug 29 1936

on the M S Solarium (Number of Visits per) Gross 6239 Tons Net 3681

Master Built at Monfalcone By whom built Cantieri Primitivi Yard No. 1136 When built 1936

Engines made at Amsterdam By whom made N. V. Werkspoor Engine No. When made 1936

Boilers made at Newcastle By whom made R. W. Hawthorn Leslie & Co Boiler No. 9190 When made 1935

Nominal Horse Power Owners Anglo Saxon Petroleum Co Port belonging to London

Please see also Newcastle Rep. No. 92836

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY.

Manufacturers of Steel The Steel Co. of Scotland (Letter for Record S)

Total Heating Surface of Boilers 2317 # Is forced draught fitted yes Coal or Oil fired Oil and waste gases

No. and Description of Boilers One single Ended multitubular Working Pressure 180 lbs

Tested by hydraulic pressure to 320 lbs Date of test 2.8.35 No. of Certificate 645 Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler Two 3/4 John Grant & Co

Area of each set of valves per boiler {per Rule 16.02 as fitted 16.58 Pressure to which they are adjusted 180 lbs 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 3 feet Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and deck top plating 3 feet Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 14'-3 3/8" Length 11'-6" Shell plates: Material Steel Tensile strength 28-32 T.

Thickness 1 3/16" Are the shell plates welded or flanged no Description of riveting: circ. seams {end 8.7. lap inter. -

long. seams 8.10.1 9.9.2 Diameter of rivet holes in {circ. seams 1 1/4" long. seams Pitch of rivets {3 1/2" 8 3/4"

Percentage of strength of circ. end seams {plate 64.28 rivets 48.5 Percentage of strength of circ. intermediate seam {plate - rivets -

Percentage of strength of longitudinal joint {plate 85.7 rivets 91 combined 89.7 Working pressure of shell by Rules 183 lbs

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

Material Steel Tensile strength 26-30 T Smallest outside diameter 3'-7 1/8"

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

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 189 lbs

End plates in steam space: Material Steel Tensile strength 36-30 T Thickness 1 7/32 Pitch of stays 1 7/4 x 2 1/4"

How are stays secured Nuts Working pressure by Rules 183 lbs

Tube plates: Material {front Steel back Thickness {15/16" 13/16"

Mean pitch of stay tubes in nests 9" Pitch across wide water spaces 13 3/4" Working pressure {front 242 lbs back 293 lbs

Girders to combustion chamber tops: Material Steel Tensile strength 28-32 T Depth and thickness of girder

at centre 10" x 1 1/2" Length as per Rule 2'-10 3/4" Distance apart 10" No. and pitch of stays

in each 32 8" Working pressure by Rules 194 lbs Combustion chamber plates: Material Steel

Tensile strength 26/30 T Thickness: Sides 4 5/64" Back 4 5/64" Top 4 5/64" Bottom 7/8"

Pitch of stays to ditto: Sides 8" x 8" Back 8" x 8" Top 8" x 10" Are stays fitted with nuts or riveted over inset

Working pressure by Rules 180 lbs Front plate at bottom: Material Steel Tensile strength 26-30 T

Thickness 15/16" Lower back plate: Material Steel Tensile strength 26-30 T Thickness 27/32"

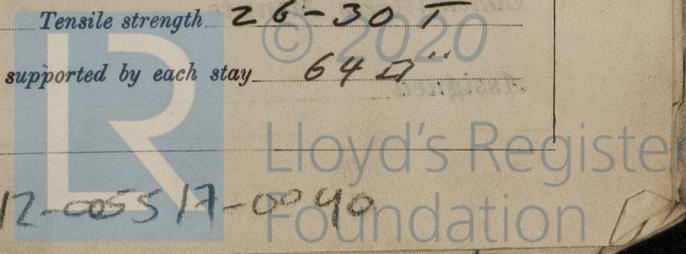
Pitch of stays at wide water space 15" x 8" Are stays fitted with nuts or riveted over nuts

Working Pressure 200 lbs Main stays: Material Steel Tensile strength 28-32 T

Diameter {At body of stay 3" or Over threads No. of threads per inch 6 Area supported by each stay 372.75

Working pressure by Rules 181 lbs Screw stays: Material Steel Tensile strength 26-30 T

Diameter {At turned off part 1 1/2" 1 5/8" or Over threads No. of threads per inch 9 Area supported by each stay 64 1/2"



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