

REPORT ON BOILERS.

No. 23867

Received at London Office

23 AUG 1935

Date of writing Report 20.8.1935 When handed in at Local Office

192

Port of Rotterdam

No. in Surrey held at Reg. Book.

Rotterdam

Date, First Survey 25th April 1931 Last Survey 16-8-1935

on the

Waste Heat Boiler MV. "C.S. WALDEN"

(Number of Visits 15)

Gross 10627

Net 6292

Master Built at Rotterdam By whom built Rott Dood M. Yard No. 189 When built 1935

Engines made at Kiel By whom made Red Krupp Germania Corp Engine No. 4818 When made 1935

Boilers made at Rotterdam By whom made Rott Dood M. Boiler No. 324 When made 1935

Nominal Horse Power 908 Owners The Oriental Tankers Ltd Port belonging to Hongkong

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY, OR DONKEY.~~ (Waste Heat)

Manufacturers of Steel Elbern Vithorne Minus Heel & Iron works Co (Letter for Record S)

Total Heating Surface of Boilers 1402 Is forced draught fitted Coal or Oil fired Exhaust Gas

No. and Description of Boilers One horizontal multitubular Working Pressure 200 lbs

Tested by hydraulic pressure to 350 lb Date of test 7.6.35 No. of Certificate 968 Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 high lifting valves

of each set of valves per boiler (per Rule 4.06) Pressure to which they are adjusted 200 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 over 24" Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating fitted on twin deck Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 7'-6 5/8" Length 8'-4 9/16" Shell plates: Material S.M. Steel Tensile strength 28-32 tons

Thickness 13/16" Are the shell plates welded or flanged No Description of riveting: circ. seams end lap 2x riv

long. seams Double butt 2x riv Diameter of rivet holes in circ. seams 1 1/16" Pitch of rivets 3 7/8" 4, 33"

Percentage of strength of circ. end seams plate 72.7% rivets 43.1% Percentage of strength of circ. intermediate seam plate 77.7% rivets 43.1%

Percentage of strength of longitudinal joint plate 72.7% rivets 43.1% combined 77.7% Working pressure of shell by Rules 203 lbs

Thickness of butt straps outer 1 1/16" inner 1 1/16" No. and Description of Furnaces in each Boiler None

Material Tensile strength Smallest outside diameter

Length of plain part top bottom Thickness of plates crown bottom Description of longitudinal joint

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

End plates in steam space: Material S.M. Steel Tensile strength 26-30 tons Thickness 1" Pitch of stays 14" 13 1/2"

How are stays secured Screwed in plates with nuts outside Working pressure by Rules

Tube plates: Material front S.M. Steel back S.M. Steel Tensile strength 26-30 tons Thickness 1"

Mean pitch of stay tubes in nests 10 1/2" x 5 5/8" Pitch across wide water spaces 13" Working pressure front 231 lb back 231 lb

Girders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

at centre Length as per Rule Distance apart No. and pitch of stays

in each Working pressure by Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

Working pressure by Rules Front plate at bottom: Material S.M. Steel Tensile strength 26-30 tons

Thickness 1" Lower back plate: Material S.M. Steel Tensile strength 26-30 tons Thickness 1"

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

Working Pressure Main stays: Material S.M. Steel Tensile strength 28-30 tons

Diameter At body of stay, 2 1/4" No. of threads per inch 9" Area supported by each stay 196 sq"

Over threads 2 1/2" Working pressure by Rules 210 Screw stays: Material Tensile strength

Diameter At turned off part, No. of threads per inch Area supported by each stay

Over threads

