

REPORT ON BOILERS.

No. 107257

Received at London Office JUN 24 1920

Date of writing Report 16.6.20 When handed in at Local Office 21.6.20 Port of Middlesbrough
 No. in Survey held at Stockton-on-Tees Date, First Survey 14 Nov. 1919 Last Survey 15th June 1920
 Reg. Book. on the S.S. "Perlak" (Number of Visits 15) Gross Tons Net
 Master Built at Rotterdam By whom built Maats Thysenrood When built 1904-11
 Engines made at Rotterdam By whom made Maats Thysenrood When made 1904
 Boilers made at Stockton By whom made Kusen Thysenrood & Co Ltd (No 4258) When made 1920
 Registered Horse Power 215 Owners Indo-Burma Petroleum Co Port belonging to Rangoon.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Co

Letter for record (r) Total Heating Surface of Boilers 795 $\frac{1}{2}$ Is forced draft fitted No. and Description of
 Boilers One single ended Working Pressure 185 Tested by hydraulic pressure to 320 Date of test 16.6.20
 No. of Certificate 6136 Can each boiler be worked separately Area of fire grate in each boiler 26 $\frac{1}{2}$ $\frac{1}{2}$ No. and Description of
 Safety valves to each boiler 2 Spring loaded Area of each valve 3.98 Pressure to which they are adjusted 180
 Are they fitted with easing gear 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 8" Mean dia. of boilers 9'-6" Length 10'-0"
 Material of shell plates steel Thickness $\frac{13}{16}$ " Range of tensile strength 29-33 Are the shell plates welded or flanged no
 Description of riveting: cir. seams 2 R. lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams $\frac{15}{16}$ " Pitch of rivets 5 $\frac{1}{2}$ "
 No. of plates width of butt straps 15" x $\frac{3}{4}$ " Per centages of strength of longitudinal joint rivets 85.2 plate 84.17 Working pressure of shell by
 Rules 186 Size of manhole in shell 19 $\frac{1}{2}$ " x 15 $\frac{1}{2}$ " Size of compensating ring 6" x 1" No. and Description of Furnaces in each
 Boiler 2 Brighton Material steel Outside diameter 35 $\frac{1}{2}$ " Length of plain part top Thickness of plates crown 7 $\frac{1}{2}$ " bottom 7 $\frac{1}{2}$ "
 Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 180 Combustion chamber
 Plates: Material steel Thickness: Sides $\frac{19}{32}$ " Back $\frac{9}{16}$ " Top $\frac{19}{32}$ " Bottom $\frac{3}{4}$ " Pitch of stays to ditto: Sides 8 $\frac{1}{2}$ " x 8" Back 7 $\frac{1}{2}$ " x 8"
 8" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182 Material of stays iron Area at
 Smallest part 1.99 Area supported by each stay 60 Working pressure by rules 249 End plates in steam space: Material steel Thickness 1"
 No. of stays 15 $\frac{1}{2}$ " x 16 $\frac{1}{2}$ " to tubes 16 $\frac{1}{2}$ " x 14 $\frac{1}{2}$ " How are stays secured nuts 8" x $\frac{3}{4}$ " Working pressure by rules 180 Material of stays steel Area at smallest part 4.77
 Area supported by each stay 275 Working pressure by rules 180 Material of Front plates at bottom steel Thickness 1" Material of
 Upper back plate steel Thickness 1" Greatest pitch of stays 13 $\frac{1}{2}$ " x 8" Working pressure of plate by rules 280 Diameter of tubes 3 $\frac{1}{4}$ "
 Pitch of tubes 4 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " Material of tube plates steel Thickness: Front 1" Back $\frac{1}{2}$ " Mean pitch of stays 11 $\frac{1}{2}$ " Pitch across wide
 Upper spaces 14" Working pressures by rules 181 Girders to Chamber tops: Material steel Depth and thickness of
 Lower at centre 7" x 1 $\frac{1}{2}$ " Length as per rule 25 $\frac{1}{2}$ " Distance apart 8" Number and pitch of Stays in each 208"
 Working pressure by rules 188 Steam dome: description of joint to shell none % of strength of joint
 Diameter 5" Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

Superheater. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 No. of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

THOMAS HUDRON & CO. LIMITED

Manufacturer.

B. W. Johnston

Notes During progress of Nov. 11-24, Dec. 15, Jan. 14-20, Feb. 11, Apr. 15-21, 22. Is the approved plan of boiler forwarded herewith yes
 Survey work in shops - - -
 During erection on May 14-21, June 9-16. Total No. of visits 15
 On board vessel - - -

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.)

This boiler has been built under special survey: is of good material and workmanship and on completion was tested hydraulic pressure with satisfactory results. The boiler is being forwarded to Calcutta.

Survey Fee ... £ 2-13-0 When applied for, Monthly 19
 Travelling Expenses (if any) £ : : When received, 19

FRI. DEC. 10 1920

FRI. 18 FEB. 1921

Committee's Minute

Signed

Wm Morrison

Engineer Surveyor to Lloyd's Register of Shipping.

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Foundation

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