

REPORT ON BOILERS.

No. 13262

4-MAY 1949

Received at London Office

No. of writing Report 28-4-1949 When handed in at Local Office 30-4-1949 Port of TRIESTE

No. in Survey held at Trieste Date, First Survey Last Survey 19249
 Book.
 080 on the s.s. "Cowasjee" ex "Ceylon" -48 (Number of Visits) Gross 2849
 Tons Net 1797
 Built at Chicago By whom built Chicago S.B. Co. Yard No. When built 1901
 Engines made at Chicago By whom made Chicago S.B. Co. Engine No. When made 1901
 Boilers made at Chicago By whom made John Mohr & Son Boiler No. When made 1901
 Indicated Horse Power 246 Owners Cowasjee, Dinshaw & Bros. Port belonging to Fideu

ULTITUBULAR BOILERS—MAIN, ~~AUXILIARY~~, OR DONKEY

Manufacturers of Steel Carnegie Illinois Steel Corporation Ch. Ill. (Letter for Record)
 Total Heating Surface of Boilers 2 x 1784 sq. feet Is forced draught fitted yes Coal or Oil fired oil
 and Description of Boilers 2 cylindrical - two furnaces each Working Pressure 175 lb/sq. in.
 Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately yes
 Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 spring loaded
 Area of each set of valves per boiler {per Rule 11.8 as fitted 19.3 Pressure to which they are adjusted 175 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 ample Is oil fuel carried in the double bottom under boilers no
 Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated no
 Largest internal dia. of boilers 12' 9" Length 12' Shell plates: Material steel Tensile strength 26.8 T/sq. in.
 Thickness 1 1/8" Are the shell plates welded or flanged riveted Description of riveting: circ. seams {end D.R. Lap inter. D.R. 4 1/2"
 g. seams T.D.R.D.B.S. Diameter of rivet holes in {circ. seams 1 5/16" long. seams 1 5/16" Pitch of rivets {9"
 Percentage of strength of circ. end seams {plate 85.41 rivets 85.41 Percentage of strength of circ. intermediate seam {plate 85.41 rivets 85.41
 Percentage of strength of longitudinal joint {plate 85.41 rivets 96 combined Working pressure of shell by Rules 217 lb/sq. in. at joint
 Thickness of butt straps {outer 7/8" inner 7/8" No. and Description of Furnaces in each Boiler two corrugated
 Material steel Tensile strength 26 T/sq. in. Smallest outside diameter 47 5/32"
 Length of plain part {top 8' 6 15/16" bottom Thickness of plates {furnace 37/64" Description of longitudinal joint fire weld
 Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules
 End plates in steam space: Material steel Tensile strength 26.8 T/sq. in. Thickness 1 1/16" Pitch of stays 15" x 14"
 How are stays secured nuts in & out Working pressure by Rules
 End plates: Material {front steel back steel Tensile strength {26 T/sq. in. Thickness {11/16" 5/8"
 Can pitch of stay tubes in nests Pitch across wide water spaces 13 1/4" Working pressure {front back
 Orders to combustion chamber tops: Material steel Tensile strength Depth and thickness of girder
 centre 8" - 2 x 3/4" Length as per Rule 30" Distance apart 7 3/8" No. and pitch of stays
 each 3 7 3/8" Working pressure by Rules Combustion chamber plates: Material steel
 Tensile strength 26 T/sq. in. Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 21/32"
 Pitch of stays to ditto: Sides 7 3/8" x 7 3/8" Back 7 3/8" x 7 3/8" Top 7 3/8" x 7 3/8" Are stays fitted with nuts or riveted over riveted
 Working pressure by Rules Front plate at bottom: Material steel Tensile strength 26.8 T/sq. in.
 Thickness 11/16" Lower back plate: Material steel Tensile strength 26 T/sq. in. Thickness 5/8" & 5/8"
 Pitch of stays at wide water space 12" x 7 3/8" Are stays fitted with nuts or riveted over riveted
 Working Pressure Main stays: Material steel Tensile strength 26.8 T/sq. in.
 Diameter {At body of stay, 2 1/2" No. of threads per inch Area supported by each stay 15 x 14 sq. in.
 Over threads
 Working pressure by Rules Screw stays: Material steel Tensile strength
 Diameter {At turned off part, 1 1/2" No. of threads per inch 10 Area supported by each stay 7 3/8" x 7 3/8"
 Over threads

014712 - 014725 - 0201

Working pressure by Rules ☒ Are the stays drilled at the outer ends ☒ Margin stays: Diameter { At turned off part, ☒ Over threads ☒ 1 1/2"

No. of threads per inch 10 ☒ Area supported by each stay ☒ Working pressure by Rules ☒

Tubes; Material steel External diameter { Plain 3 1/4" Stay 3 1/4" Thickness { 1/8" 3/16" No. of threads per inch 9 ☒

Pitch of tubes 4 1/4" x 4 1/4" ☒ Working pressure by Rules ☒ Manhole compensation: Size of opening

shell plate 19" x 15" ☒ Section of compensating ring 15 3/4" x 1" ☒ No. of rivets and diameter of rivet holes 44 ☒ 1 1/8"

Outer row rivet pitch at ends 4 1/8" ☒ Depth of flange if manhole flanged 1 1/2" ☒ Steam Dome: Material ☒

Tensile strength ☒ Thickness of shell ☒ Description of longitudinal joint ☒

Diameter of rivet holes ☒ Pitch of rivets ☒ Percentage of strength of joint { Plate ☒ Rivets ☒

Internal diameter ☒ Working pressure by Rules ☒ Thickness of crown ☒ No. and diameter

stays ☒ Inner radius of crown ☒ Working pressure by Rules ☒

How connected to shell ☒ Size of doubling plate under dome ☒ Diameter of rivet holes and p

of rivets in outer row in dome connection to shell ☒

Type of Superheater ☒ Manufacturers of { Tubes ☒ Steel castings ☒

Number of elements ☒ Material of tubes ☒ Internal diameter and thickness of tubes ☒

Material of headers ☒ Tensile strength ☒ Thickness ☒ Can the superheater be shut off a

the boiler be worked separately ☒ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler ☒

Area of each safety valve ☒ Are the safety valves fitted with easing gear ☒ Working pressure as p

Rules ☒ Pressure to which the safety valves are adjusted ☒ Hydraulic test pressur

tubes ☒ castings ☒ and after assembly in place ☒ Are drain cocks or valves fit

to free the superheater from water where necessary ☒

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with ☒

The foregoing is a correct description,

Manufactur

Dates of Survey { During progress of work in shops -- ☒ Are the approved plans of boiler and superheater forwarded herewith ☒ yes
while building { During erection on board vessel --- ☒ (If not state date of approval.)
Total No. of visits See Rpt 9

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

These boilers were constructed in 1901 to the requirements of the U.S. Govt. and Bureau Veritas Rules -

They have been opened up, examined throughout and the scantlings checked and found in accordance with the approved plan -

The workmanship and materials appear good -

In our opinion the boilers are eligible to be classed for a working pressure of 175 lb/sq. in.

Survey Fee ... £ : : When applied for, 192

Travelling Expenses (if any) £ : : When received, 192

Committee's Minute **FRI 1 JUL 1949**

Assigned See minute on
fe rpl

Sergio Lesari
Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register Foundation