

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

080 on the s.s. "Covasjee" ex "Ceylon" -48 (Number of Visits _____) Tons {Gross 2849
Net 1797

Boiler ✓ Built at Chicago By whom built Chicago S.B. Co. Yard No. ✓ When built 1901

Machinery 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 Covasjee, 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

Number and Description of Boilers 2 cylindrical - two furnaces each Working Pressure 175 lb/□"

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/□" 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/□"

Thickness 1 1/8" ✓ Are the shell plates welded or flanged riveted ✓ Description of riveting: circ. seams {end D.R. Lap
inter. D.R. ✓

Long. 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 {4 1/2" ✓
9" ✓

Percentage of strength of circ. end seams {plate 85.41
rivets ✓ Percentage of strength of circ. intermediate seam {plate 85.41
rivets ✓

Percentage of strength of longitudinal joint {plate 85.41
rivets 96
combined ✓ Working pressure of shell by Rules 217 lb/□" 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/□" Smallest outside diameter 47 5/32" ✓

Length of plain part {top _____
bottom 8' 6 15/16" Thickness of plates {circ. seams _____
bottom 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/□" 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/□"
26 T/□" Thickness {11/16" ✓
5/8" ✓

Can pitch of stay tubes in nests ✓ Pitch across wide water spaces 13 1/4" ✓ Working pressure {front ✓
back ✓

End plates 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/□" 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/□"

Thickness 11/16" ✓ Lower back plate: Material steel Tensile strength 26 T/□" Thickness 5/8" & 5/8" D.

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/□"

Diameter {At body of stay, 2 1/2" ✓
or
Over threads ✓ No. of threads per inch ✓ Area supported by each stay 15 x 14 □"

Working pressure by Rules ✓ Screw stays: Material steel Tensile strength ✓

Diameter {At turned off part, 1 1/2" ✓
or
Over threads ✓ No. of threads per inch 10 ✓ Area supported by each stay 7 3/8" x 7 3/8"

Working pressure by Rules Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, or 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 pitch 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 and 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 per Rules Pressure to which the safety valves are adjusted Hydraulic test pressure tubes castings and after assembly in place Are drain cocks or valves fitted 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, _____
Manufacturer _____

Dates of Survey { During progress of work in shops -- Are the approved plans of boiler and superheater forwarded herewith yes (If not state date of approval.) while building { During erection on board vessel --- 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

[Signature]
[Signature]
 Engineer Surveyor to Lloyd's Register of Shipping.

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

Assigned *See minute on file*