

RECEIVED

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IN D.O.

REPORT ON BOILERS.

No. 24395

10 MAY 1951

Received at London Office.

Writing Report 28th APRIL 1951. When handed in at Local Office 3rd MAY 1951. Port of GREENOCKSurvey held at GREENOCK Date, First Survey 20th FEB 1948. Last Survey 6th APRIL 1951

on the S.S. JAG RANI (Number of Visits.....) Tons Gross..... Net.....

Built at VIZAGAPATAM By whom built SCINDIA STEAM NAV. CO. LTD. Yard No. When built

Made at GREENOCK By whom made JOHN G. KINCAID & CO. LTD. Engine No. 794 When made 1951

Made at do By whom made do Boiler No. 794 When made 1951

Horse Power 524 Owners SCINDIA STEAM NAV. CO. LTD. Port belonging to

TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel COLVILLE LTD. (Letter for Record.....)

Heating Surface of Boilers 7563 Is forced draught fitted Yes Coal or Oil fired Coal

Description of Boilers 3 SE cylindrical Working Pressure 220 lbs

by hydraulic pressure to 380 Date of test 15-3-51 2636 23-3-51 2638 29-3-51 2639 No. of Certificate 2639 Can each boiler be worked separately Yes

of Firegrate in each Boiler 63.25 No. and Description of safety valves to each boiler 2 1/4" GM double spring 142

of each set of valves per boiler per Rule 6.705 Pressure to which they are adjusted Are they fitted with easing gear Yes

of donkey boilers, state whether steam from main boilers can enter the donkey boiler

st distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

st distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

t internal dia. of boilers 14' 10 9/16" Length 11' 6" Shell plates: Material S Tensile strength 29/33 tons

ess 1 7/8" Are the shell plates welded or flanged No Description of riveting: circ. seams end DR inter

ams TRDBS Diameter of rivet holes in circ. seams 1 1/32" long. seams 1 7/16" Pitch of rivets 4-158 9-8/35

plate of strength of circ. end seams plate 64.6 rivets 44.89 Percentage of strength of circ. intermediate seam plate 85.3 rivets 85.9

age of strength of longitudinal joint plate 85.9 rivets 87.78 Working pressure of shell by Rules

ss of butt straps outer 1 3/32" inner 1 7/32" No. and Description of Furnaces in each Boiler Three Morrison Corrugated

l S Tensile strength 26/30 tons Smallest outside diameter 3' 9 1/2"

of plain part top Thickness of plates crown 3/4" bottom Description of longitudinal joint Weld

ions of stiffening rings on furnace or c.c. bottom None Working pressure of furnace by Rules

ates in steam space: Material S Tensile strength 26/30 tons Thickness 1 1/32" Pitch of stays 21' 18 3/4"

o stays secured DN with loose washers Working pressure by Rules

lates: Material front S back Tensile strength 26/30 tons Thickness 7/8" 1 1/6"

itch of stay tubes in nests 8.43" Pitch across wide water spaces 13 1/2" Working pressure front back

to combustion chamber tops: Material S Tensile strength 29/33 tons Depth and thickness of girder

e 10' 1 1/2" Length as per Rule 2' 9 5/8" Distance apart 8 1/4" No. and pitch of stays

Three 2 8" Working pressure by Rules Combustion chamber plates: Material S

strength 26/30 tons Thickness: Sides 1 1/6" Back 1 1/6" Top 1 1/6" Bottom 1 3/16"

stays to ditto: Sides 8' 8 1/4" Back 8' 9" Top 8' 8 1/4" Are stays fitted with nuts or riveted over Nuts except on shell

pressure by Rules Front plate at bottom: Material S Tensile strength 26/30 tons Thickness 7/8"

Lower back plate: Material S Tensile strength 26/30 tons Thickness 7/8"

stays at wide water space 14' 9" Are stays fitted with nuts or riveted over Nuts

of Ship pressure Main stays: Material S Tensile strength 28/32 tons

At body of stay 3 1/4" No. of threads per inch 6 Area supported by each stay

Over threads pressure by Rules Screw stays: Material Wrought iron Tensile strength 21 1/2 tons

At turned off part 1 5/8" 1 3/4" No. of threads per inch 9 Area supported by each stay

Over threads

pressure by Rules

At turned off part 1 5/8" 1 3/4" No. of threads per inch 9 Area supported by each stay

Over threads

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Working pressure by Rules..... Are the stays drilled at the outer ends. *No* Margin stays: Diameter { At turned off part..... *1 7/8" x 2"*
 No. of threads per inch *9* ✓ Area supported by each stay..... Working pressure by Rules.....
 Tubes: Material *hot rolled welded steel* External diameter { Plain..... *2 1/2"* ✓ Thickness { *5/16, 3/8, 7/16* ✓ No. of threads per inch *9* ✓
 Pitch of tubes *3 1/4" x 3 5/8"* Working pressure by Rules..... Manhole compensation: Size of opening
 shell plate *16 1/2" x 20 1/2"* Section of compensating ring *2' 8 1/2" x 3' 1" x 1' 5/32"* No. of rivets and diameter of rivet holes *42 - 1' 5/32"* ✓
 Outer row rivet pitch at ends *10"* Depth of flange if manhole flanged *McNeil type door* Steam Dome: Material.....
 Tensile strength..... Thickness of shell..... description of longitudinal joint.....
 Diameter of rivet holes..... Pitch of rivets..... Percentage of strength of joint.....
 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
 of rivets in outer row in dome connection to shell.....
 Type of Superheater..... Manufacturers of { Tubes.....
 Steel forgings.....
 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
 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 a
 Rules..... Pressure to which the safety valves are adjusted..... Hydraulic test press
 tubes..... forgings and castings..... and after assembly in place..... Are drain cocks
 valves fitted to free the superheater from water where necessary.....

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with.....

For JOHN G. KENCAID & COY., LIMITED
 The foregoing is a correct description,

Dates of Survey while building { During progress of work in shops - - }
 { During erection on board vessel - - - }

Are the approved plans of boiler and superheater forwarded herewith *Yes*
 (If not state date of approval.)

Total No. of visits.....

Is this Boiler a duplicate of a previous case *Yes* ✓ If so, state Vessel's name and Report No. *Greenock FE N° 24232*

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

These boilers have been constructed under Special Survey in accordance with the Rules and approved plan. The materials & workmanship are sound & good. They have been shipped to VEZACAPATAN to be installed in the vessel.

Please see Greenock FE of N° 24395. on Main engine for recommendations

Survey Fee £

Travelling Expenses (if any) £

When applied for.....19.....

When received.....19.....

See Machinery Report

Charles J. Hunter

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute.....

Assigned.....

SEE ACCOMPANYING MACHINERY REPORT.



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