

REPORT ON BOILERS.

No. 24548

Received at London Office

Writing Report 9th FEB. 1952 When handed in at Local Office 12th FEB. 1952 Port of GREENOCK
 Survey held at GREENOCK Date, First Survey 19th JUNE 1950 Last Survey 28th JANUARY 1952
 on the S/S "JALAPUSHPA"
 Built at VIZAGAPATAM By whom built SCINDIA STEAM NAV. CO. LTD. Yard No. 112 When built
 made at GREENOCK By whom made JOHN G. KINCAID & CO. LTD. Engine No. 796 When made 1952
 made at do By whom made do Boiler No. 796 When made 1952
 Horse Power 524 Owners SCINDIA STEAM NAV. CO. LTD. Port belonging to

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel COLVILLE LTD. (Letter for Record)
 Heating Surface of Boilers 7563^{sq} Is forced draught fitted Yes Coal or Oil fired Coal
 and Description of Boilers 3 SE cylindrical Working Pressure 220
 by hydraulic pressure to 380 lb Date of test 11-12-51 13-12-51 17-12-51 No. of Certificate 2661 2662 2663 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 opening 1 1/2"
 of each set of valves per boiler per Rule 6.705 Pressure to which they are adjusted 7.96 Are they fitted with easing gear Yes
 of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers
 distance between shell of boiler and tank top plating Is the bottom of the boiler insulated
 internal dia. of boilers 14'-10 3/16" Length 11'-6" Shell plates: Material S Tensile strength 29/33 tons
 Are the shell plates welded or flanged No Description of riveting: circ. seams end DR inter 4-158"
 Diameter of rivet holes in circ. seams 1 1/32" long. seams 1 7/16" Pitch of rivets 9.8125"
 Percentage 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
 Percentage of strength of longitudinal joint rivets 85.9 combined 87.78 Working pressure of shell by Rules
 thickness of butt straps outer 1 3/32" inner 1 7/32" No. and Description of Furnaces in each Boiler Three Morrison corrugated
 Tensile strength 26/30 tons Smallest outside diameter 3'-9 1/2"
 Thickness of plates crown 3/4" bottom 3/4" Description of longitudinal joint Weld.
 Working pressure of furnace by Rules
 plates in steam space: Material S Tensile strength 26/30 tons Thickness 1 1/32" Pitch of stays 21 x 18 1/2"
 are stays secured DN with loose washers Working pressure by Rules
 plates: Material S Tensile strength 26/30 tons Thickness 7/8"
 pitch of stay tubes in nests 8.43 Pitch across wide water spaces 13 1/2" Working pressure front back
 plates to combustion chamber tops: Material S Tensile strength 29/33 tons Depth and thickness of girder
 Length as per Rule 2'-9 5/8" Distance apart 8 1/4" No. and pitch of stays
 Working pressure by Rules Combustion chamber plates: Material S
 Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 1 3/16"
 of stays to ditto: Sides 8 x 8 1/4" Back 8 x 9" Top 8 x 8 1/4" Are stays fitted with nuts or riveted over Nuts except on shell
 Working 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"
 of stays at wide water space 14" x 9" Are stays fitted with nuts or riveted over Nuts
 Working 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
 Working pressure by Rules Screw stays: Material Wrought iron Tensile strength 21.5 tons
 At turned off part 1 5/8" x 1 3/4 No. of threads per inch 9 Area supported by each stay
 Over threads

5-A 24578

Working pressure by Rules..... Are the stays drilled at the outer ends *No*..... Margin stays: Diameter { At turned off part.....
{ Over threads..... *1 1/8" 22*
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 { *9 wa*..... No. of threads per inch *9*
{ Stay *2 1/2"*.....
Pitch of tubes *3 1/2" x 3 5/8"*..... Working pressure by Rules..... Manhole compensation: Size of op
shell plate *16 1/2" x 20 1/2"*..... Section of compensating ring *2' 8 1/2" x 3' 1" x 1 1/2"*..... No. of rivets and diameter of rivet holes.....
Outer row rivet pitch at ends *10"*..... Depth of flange if manhole flanged *M. Rail 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 { Plate.....
{ Rivets.....
Internal diameter..... Working pressure by Rules..... Thickness of crown..... No. and dia
stays..... Inner radius of crown..... Working pressure by Rules.....
How connected to shell..... Size of doubling plate under dome..... Diameter of rivet holes a
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
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 pressur
Rules..... Pressure to which the safety valves are adjusted..... Hydraulic test p
tubes..... forgings and castings..... and after assembly in place..... Are drain
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 *Yes*.....

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

A. D. Cunningham Manuf
Chief Draughtsman.

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. *GRY FE N° 24471*

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 plans. The materials & workmanship are sound & good. They have been shipped to Vizagapatam to be installed in the vessel. For recommendation please see Greenock FE of N° 24578 on main engine.

Survey Fee £
Travelling Expenses (if any) £
When applied for.....19.....
When received.....19.....

Charles W. Hunter

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute.....

Assigned.....

GLASGOW 26 FEB 1952

FRI. 28 NOV 1952

See F.E. mch. rph Cal 15291

Lloyd's Register
Foundation