

REPORT ON BOILERS.

L.P. STEAM GENERATOR.

No. 1000

29 JUN 1953

Received at London Office

Report 21st APRIL 1953. When handed in at Local Office 19... Port of YOKOHAMA

Survey held at YOKOHAMA AND SHIMIZU, JAPAN Date, First Survey 10TH SEPTEMBER 1952 Last Survey 23RD MAY 1953

the S.S. "LEONIDAS" (Number of Visits 18) Gross... Tons Net...

Built at SHIMIZU, JAPAN By whom built SHIMIZU SHIPYARD NIPPON STEEL TUBE CO., LTD. Yard No. 151 When built 1953. 5mo

at TOKYO, JAPAN By whom made ISHIKAWAJIMA HEAVY INDUSTRIES CO., LTD. Engine No. 1T 2188 When made 1953. 5mo

at TOKYO, JAPAN By whom made ISHIKAWAJIMA HEAVY INDUSTRIES CO., LTD. Boiler No. 1B 437 1B 438 When made 1953. 5mo

se Power Owners Miramonte Compania Naviera S.A Port belonging to Monrovia Liberia

LOW PRESSURE STEAM GENERATOR TUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

ers of Steel NIPPON STEEL TUBE CO., LTD. YAWATA IRON AND STEEL CO., LTD. (Letter for Record)

ing Surface of Boilers 36 m² Is forced draught fitted HEATED BY Coal or Oil fired SUPER HEATED STEAM

Description of Boilers ONE, HORIZONTAL, 2-PASS, SHEEL AND TUBE TYPE Working Pressure 9.5 kg/cm²

draulic pressure to COILS 60 kg/cm² Date of test 12-12-52 No. of Certificate M-911 Can each boiler be worked separately

egrate in each Boiler No. and Description of safety valves to each boiler TWO - HIGH LIFT TYPE SPRING SAFETY VALVE

h set of valves per boiler per Rule 185 cm² as fitted 225.7 cm² Pressure to which they are adjusted 9.7 kg/cm² Are they fitted with easing gear YES

key boilers, state whether steam from main boilers can enter the donkey boiler No

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 YES

ernal dia. of boilers 1385 mm Length 4297 mm Shell plates: Material O.H. STEEL Tensile strength 46.7 kg/mm²

Are the shell plates welded or flanged WELDED Description of WELDING: circ. seams BUTT WELD

BUTT WELD Diameter of rivet holes in circ. seams Pitch of rivets

of strength of circ. end seams plate rivets Percentage of strength of circ. intermediate seam plate rivets

of strength of longitudinal joint plate rivets Working pressure of shell by Rules

of butt straps outer inner No. and Description of COILS in each Boiler 54 HORIZONTAL SUBMERGED 2-PASS TUBES

O.H. STEEL Tensile strength 56.8-58.4 kg/mm² Smallest outside diameter 25 mm

plain part top bottom Thickness of TUBES plates 2.6 mm Description of longitudinal joint

of stiffening rings on furnace or c.c. bottom Working pressure of COILS by Rules 31.9 kg/cm²

in steam space: Material O.H. STEEL Tensile strength 44.4 kg/mm² Thickness 28 mm Pitch of stays

secured Working pressure by Rules 17.57 kg/cm²

Material front back Tensile strength 29.3 kg/cm² Thickness 5.1 mm

of stay tubes in nests Pitch across wide water spaces 38 mm Working pressure front back 31 kg/cm²

ombustion chamber tops: Material Tensile strength Depth and thickness of girder

Length as per Rule Distance apart No. and pitch of stays

Working pressure by Rules Combustion chamber plates: Material

Thickness: Sides Back Top Bottom

s to ditto: Sides Back Top Are stays fitted with nuts or riveted over

ssure by Rules Front plate at bottom: Material Tensile strength

Lower back plate: Material Tensile strength Thickness

s at wide water space Are stays fitted with nuts or riveted over

sure Main stays: Material Tensile strength

body of stay No. of threads per inch Area supported by each stay

threads Screw stays: Material Tensile strength

sure by Rules No. of threads per inch Area supported by each stay

turned off part No. of threads per inch Area supported by each stay

threads

Working pressure by Rules..... Are the stays drilled at the outer ends..... Margin stays: Diameter ^{At turned off part,} _{or} Over threads.....
No. of threads per inch..... Area supported by each stay..... Working pressure by Rules.....
Tubes: Material..... External diameter ^{Plain.....} _{stay.....} Thickness..... No. of threads per inch.....
Pitch of tubes..... Working pressure by Rules..... Manhole compensation: Size of opening in
END shell plate. 305 x 405 mm..... Section of compensating ring..... No. of rivets and diameter of rivet holes.....
Outer row rivet pitch at ends..... Depth of flange if manhole flanged 100 mm..... 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 of
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 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 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..... forgings and 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 22 inclusive for boilers been complied with..... YES

The foregoing is a correct description,

Shur Mohi Manufacturer.

Dates of Survey while building ^{During progress of work in shops - -} 1952:- SEPT. 10 Nov. 11, 22, 24, 26, 28, DEC. 1, 5, 12, 16, 19
1953:- JAN. 16..... Are the approved plans of boiler and superheater forwarded herewith 19-M-52 (ROBE)
^{During erection on board vessel - - -} 1953:- Feb. 20 March 17, 25, April 13, May 19, 23
Total No. of visits 18

S.G.
Is this ~~Boiler~~ a duplicate of a previous case..... NO..... If so, state Vessel's name and Report No.....

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

THIS LOW PRESSURE STEAM GENERATOR HAS BEEN CONSTRUCTED UNDER THE SUPERVISION OF THE SOCIETY'S
SURVEYORS IN ACCORDANCE WITH THE RULES AND APPROVED PLANS.

THE QUALITY OF WORKMANSHIP AND MATERIALS HAVE BEEN FOUND SATISFACTORY.

THE L. P. STEAM GENERATOR HAS BEEN INSTALLED IN THE VESSEL AND EXAMINED UNDER STEAM
AND THE SAFETY VALVES ADJUSTED AS STATED.

IT IS SUBMITTED THAT THE L. P. STEAM GENERATOR IS ELIGIBLE TO BE CLASSED WITH THIS SOCIETY
WITH THE NOTATION OF + L M C 5.53

W.P. = 10 kg/cm²
142 LB/SQ IN.

Survey Fee CONST: ONLY 1830,000 : } When applied for 19/6/1953
Travelling Expenses (if any) £ : : } When received 19.....

Shur Mohi
Engineer Surveyor to Lloyd's Register of Shipping.

FRIDAY 24 JUL 1953

Committee's Minute.....

Assigned See F. E. mch. rpt.



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Foundation