

REPORT ON BOILERS.

No. 8608 A

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Port of SAN FRANCISCO

To. in Survey held at San Francisco, California Date, First Survey July 27th Last Survey August 15th 1942
eg. Book.

22213 on the Steel S. S. "SINGKEP" (Number of Visits Six) Tons { Gross 6607 Net 4070

Built at Amsterdam By whom built Nederl. Schps. Maats Yard No. 165 When built 1922

Engines made at Amsterdam By whom made Machinefabrick Werkspoor Engine No. - When made 1924

Boilers made at Amsterdam By whom made Machinefabrick Werkspoor Boiler No. - When made 1928

Nominal Horse Power 91906 88200 Owners N.V. Stoomv. Maats Nederland Port belonging to Batavia

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record)

Total Heating Surface of Boilers EACH BOILER 3,500 SQ FEET Is forced draught fitted YES Coal or Oil fired COAL

No. and Description of Boilers FOUR(4) FIRE TUBE-SCOTCH TYPE - 3 FURNACE Working Pressure 225 LBS

Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately YES

Area of Firegrate in each boiler 60 SQ. FEET No. and Description of Safety valves to each boiler 2 SPRING LOADED VALVES EACH BOILER

Area of each set of valves per boiler { per Rule Pressure to which they are adjusted 225 LBS Are they fitted with easing gear YES
as fitted

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NO DONKEY BOILER FITTED

Smallest distance between boilers or uptakes and bunkers or woodwork 8 FEET 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 YES

Largest internal diameter of boilers 16 FEET 5 INCHES Length 12 FEET 3 INCHES Shell plates: Material STEEL Tensile strength

Thickness 38 mm. Are the shell plates welded or flanged FLANGED Description of riveting: circ. seams { end DOUBLE RIVETED
LAP JOINT

Long. seams TRIPLE RIVETED BUTT JOINT Diameter of rivet holes in { circ. seams 39 mm. Pitch of rivets { OUTER ROW 225 mm
long. seams 39 mm INNER ROW 112 mm

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

Percentage of strength of longitudinal joint { plate rivets combined

Thickness of butt straps { outer 32 mm. No. and Description of Furnaces in each Boiler THREE (3) MORISON TYPE-II CORRUGATIONS
inner 32 mm EACH FURNACE

Material STEEL Tensile strength Smallest outside diameter 4'-4 1/2"

Length of FURNACE { top 9'-8 1/4" Thickness of plates { crown 3" Description of longitudinal joint ROLLED LAP WELDED
bottom 4

Dimensions of stiffening rings on furnace or c.c. bottom

End plates in steam space: Material STEEL Tensile strength Thickness 33 mm. Pitch of stays 480 mm

How are stays secured THREADED BOTH ENDS. NUTS INSIDE & NUTS & WASHERS OUTSIDE OF PLATE

Tube plates: Material { front STEEL Tensile strength Thickness { 25 mm.
back STEEL 25 mm.

Mean pitch of stay tubes in nests 114 mm. Pitch across wide water spaces 365 mm.

Girders to combustion chamber tops: Material STEEL Tensile strength Depth and Thickness of girder

at centre 230 mm DOUBLE PLATES Length at per Rate FITTED 920 mm. Distance apart 225 mm. No. and pitch of stays

in each FIVE 200 mm. Combustion chamber plates: Material STEEL

Tensile strength Thickness: Sides 17 mm. Back 17 mm. Top 17 mm. Bottom 25 mm.

Pitch of stays to ditto: Sides 200 mm. Back 200 mm. Top 200 mm. Are stays fitted with nuts or riveted over RIVETED

Front plate at bottom: Material STEEL Tensile strength

Thickness 25 mm. Lower back plate: Material STEEL Tensile strength Thickness 24 mm

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

Main stays: Material STEEL Tensile strength

Diameter { At body of stay 3 3/8" No. of threads per inch 8

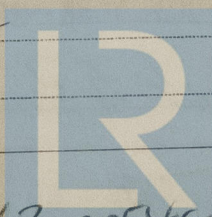
Over threads Tensile strength

Screw stays: Material STEEL

Diameter { At turned off part 1 5/8" No. of threads per inch 10

Over threads

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Are the stays drilled at the outer ends YESMargin stays: Diameter { At turned off part, ☒
or
Over threads ☒No. of threads per inch ☒Tubes: Material ☒ External diameter { Plain $3\frac{1}{4}$ " No. 8 L.S.G. Thick
Stay $3\frac{1}{4}$ " Thickness { No. 8 L.S.G. - 292 Tubes
STAY - $\frac{5}{16}$ " 120 " No. of threads per inch
STAY $\frac{1}{16}$ " 8 "Pitch of tubes 114 m.m.Manhole compensation: Size of opening in shell plate 305 m.m. x 405 m.m. Section of compensating ring 880 x 780 x 32 m.m. No. of rivets and diameter of rivet holes 54 RIVETS DIA 32 m.m.Outer row rivet pitch at ends 120 & 220 m.m. Depth of flange if manhole flanged ☒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 ☒ Thickness of crown ☒ No. and diameter of stays ☒Inner radius of crown ☒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 SMITH & WERKSPORManufacturers 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 YESIs a safety valve fitted to every part of the superheater which can be shut off from the boiler YESArea of each safety valve ☒Are the safety valves fitted with easing gear NOPressure to which the safety valves are adjusted 230 LBS / \square

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 YESHave all the requirements of Sections 14 to 22 inclusive for boilers been complied with ☒

The foregoing is a correct description,

Manufacturer.

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

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

Total No. of visits ☒

Is this Boiler a duplicate of a previous case

If so, state Vessel's name and Report No.

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

The boilers were built under Special Survey by the Bureau Veritas.

In June 1941, at Sourabaya the Surveyors to Lloyd's Register of Shipping made an examination of the boilers with a view to their Classification and recommended that the boilers be classed L. M. C.Survey Fee £ : : { When applied for, 19
Travelling Expenses (if any) £ : : { When received, 19

F. J. Andrews M. B. E. G. E. G.

Engineer Surveyor to Lloyd's Register of Shipping.

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