

REPORT ON BOILERS.

Received at London Office

Date of writing Report May 3, 1943 When handed in at Local Office 101 Port of SAN FRANCISCO

No. in Survey held at San Francisco Date, First Survey July 27, Last Survey August 15, 1943
Reg. Book. 82371 on the S.S. "SINGKEP" (Number of Visits Six) Gross 6607 Tons Net 4070

Master - Built at Amsterdam By whom built Nederlands Schps. Maats When built 1922
Engines made at Amsterdam By whom made Ned. Fb.v. Wrk & Spoor When made 1922
Boilers made at Amsterdam By whom made Ned. Fb.v. Wrk & Spoor When made 1922
Registered Horse Power Not known Owners N.V. Stoomv. Maats. Nederland Port belonging to Batavia

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Not known

(Letter for record S) Total Heating Surface of Boilers 14000 sq.ft. Is forced draft fitted yes No. and Description of Boilers 4 Scotch Single Ended Working Pressure 218 Lbs. Tested by hydraulic pressure to not known Date of test -

No. of Certificate - Can each boiler be worked separately yes Area of fire grate in each boiler 60 sq.ft. No. and Description of safety valves to each boiler 2 Spring loaded Area of each 5026.6 sq. mm Pressure to which they are adjusted 218 Lbs per sq. in. Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No Dky. Blr.

Smallest distance between boilers or uptakes and bunkers or woodwork 8 feet Mean dia. of boilers 5000 m.m. Length 3806 m.m. Material of shell plates Steel Thickness 38 m.m. Range of tensile strength 47/53 kg/cm² Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams Double lap long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 39 m.m. Pitch of rivets 255 m.m. ~~Do not exceed~~ width of butt straps 568 m.m. Per centages of strength of longitudinal joint rivets 85.5 Working pressure of shell by plate 84.7

rules 214 lbs. Size of manhole in shell 305 x 405 m.m. Size of compensating ring 780 x 32 m.m. No. and Description of Furnaces in each boiler 3 Deighton Material Steel Outside diameter 4'-1 1/2" Length of plain part top 9 1/2" Thickness of plates crown 3/4" bottom 3/4"

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 223 lbs. Combustion chamber plates: Material steel Thickness: Sides 18 m.m. Back 18 m.m. Top 18 m.m. Bottom 25 m.m. Pitch of stays to ditto: Sides 200x195 m.m. Back 200x215 m.m.

Top 200x225 m.m. If stays are fitted with nuts or riveted heads nuts Working pressure by rules 235 lbs. Material of stays Steel Area at smallest part 1.77 sq. in. Area supported by each stay 40000 m.m.² Working pressure by rules 245 lbs. End plates in steam space: Material Steel Thickness 33 m.m.

Pitch of stays 480 x 480 m.m. How are stays secured double nuts Working pressure by rules 215 lbs. Material of stays Steel Area at smallest part 8.02 sq. in. Area supported by each stay 230400 m.m.² Working pressure by rules 227 lbs. Material of Front plates at bottom Steel Thickness 25 m.m. Material of Lower back plate Steel Thickness 24 m.m. Greatest pitch of stays 380x200 m.m. Working pressure of plate by rules 253 lbs. Diameter of tubes 3-1/4"

Pitch of tubes 114x114 m.m. Material of tube plates Steel Thickness: Front 25 m.m. Back 23 m.m. Mean pitch of stays 285 m.m. Pitch across wide water spaces 385 m.m. Working pressures by rules 330 Lbs. Girders to Chamber tops: Material steel Depth and thickness of girder at centre 230x44 m.m. Length as per rule 850 m.m. Distance apart 225 m.m. Number and pitch of Stays in each 3 - 200 m.m.

Working pressure by rules 222 Lbs. Steam dome: description of joint to shell none % of strength of joint - Diameter - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivet holes - Pitch of rivets - Working pressure of shell by rules - Crown plates - Thickness - How stayed -

SUPERHEATER. Type Smith & Werkspoor Date of Approval of Plan not known Tested by Hydraulic Pressure to 282 Lbs. per sq. in.

Date of Test August 1, 1942 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yes Diameter of Safety Valve no record Pressure to which each is adjusted 218 Lbs. per sq. in. Is Easing Gear fitted yes

VERTICAL DONKEY BOILER—No. _____ Description _____ Manufacturers of steel _____

Made at _____ By whom made _____ When made _____ Where fixed _____ Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____

No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____ Range of tensile strength _____

Descrip. of riveting long. seams _____ Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint Rivets _____ Plates _____ Working pressure of shell by rules _____ Thickness of shell crown plates _____

Radius of do. _____ No. of Stays to do. _____ Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____ Working pressure of furnace by rules _____ Thickness of furnace crown plates _____

plates _____ Radius of do. _____ Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

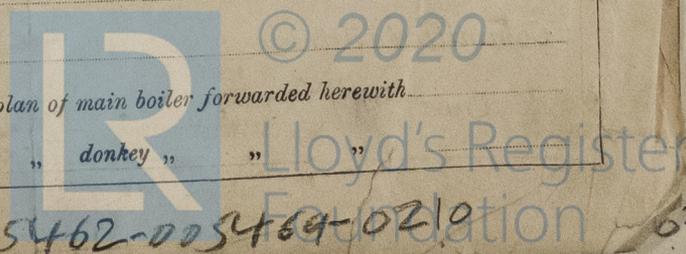
The foregoing is a correct description, _____ Manufacturer.

Dates of Survey while building { During progress of work in shops - - } { During erection on board vessel - - - } Total No. of visits _____

Is the approved plan of main boiler forwarded herewith _____

" " " donkey " " Lloyd's Register Foundation 624

If not, state whether, and when, one will be sent. Already sent. NO



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

These boilers were built under special survey by the Bureau Veritas.

In June 1941 the Sourabaya Surveyors to this Society examined these boilers with recommendation as previously stated.

The Boilers were again examined and particulars taken at this Port with a view to same being classed B.S. with date.

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Notes

(The Surveyors are requested not to write upon the space for Committee's Minute.)

The amount of Entry Fee	£	:	:	When applied for,
Special	£	:19.....
Donkey Boiler Fee	£	:	When received,
Travelling Expenses (if any)	£	:	:19.....

Committee's Minute FRI. 07 JG 1943

Assigned See minute on original report

M. J. J. J.
 Engineer Surveyor to Lloyd's Register of Shipping

