

REPORT ON BOILERS.

No. 16680

Received at London Office -1 FEB 1926

Date of writing Report 23.1.1916 When handed in at Local Office

Port of HAMBURG.

No. in Reg. Book. 39578 on the Twin Sc. Motor Vessel JAVANESE PRINCE
Date, First Survey 7th Oct. 1915 Last Survey 8th January 1926
(Number of Visits 10) Gross 6376 Tons Net 3874

built at HAMBURG By whom built Deutsche Werft A.G. Yard No. 82 When built 1926
Engines made at BERLIN By whom made Allgemeine-Electricitäts-Gesellschaft Engine No. 182/183 When made 1926
Boilers made at HAMBURG By whom made Deutsche Werft A.G. Boiler No. 203 When made 1926
Owners RIO-CAPE-LINE Ltd. Port belonging to LONDON

VERTICAL DONKEY BOILER.

Made at Hamburg By whom made Deutsche Werft A.G. Boiler No. 203 When made 1926 Where fixed engine room
Manufacturers of Steel Gutshofnungs Hütte Oberhausen
Total Heating Surface of Boiler 45 m² = 485 sq ft Is forced draught fitted yes Coal or Oil fired oil fired

No. and Description of Boilers One vertical Donkey Boiler Working pressure 7 kg = 100 lbs
Tested by hydraulic pressure to 200 lbs Date of test 7th Nov. 1925 No. of Certificate 402
Area of Firegrate in each Boiler No. and Description of safety valves to each boiler two spring loaded
Area of each set of valves per boiler per rule 4122 mm² as fitted 7796 mm² Pressure to which they are adjusted 100 lbs Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler no Smallest distance between boiler or uptake and bunkers
Woodwork 2000 mm Is oil fuel carried in the double bottom under boiler no Smallest distance between base of boiler and tank top plating
1400 mm Is the base of the boiler insulated no Largest internal dia. of boiler 1500 mm Height 3700 mm

Shell plates: Material Steel Tensile strength 44 - 51 kgs Thickness 11 mm
Are the shell plates welded or flanged flanged no Description of riveting: circ. seams {end laps single bottom single long. seams lap double
Dia. of rivet holes in {circ. seams 24 mm Pitch of rivets {56 mm Percentage of strength of circ. seams {plate 57% rivets 60% of Longitudinal joint {plate 66% rivets 96% combined

Working pressure of shell by rules 8.9 kgs Thickness of butt straps {outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished partial spherical Material Steel
Tensile strength 34 - 41 kgs Thickness 15 mm Radius 1500 mm Working pressure by rules 7.2 kgs

Description of Furnace: Plain, spherical, or dished crown partial spherical Material Steel Tensile strength 34 - 41 kgs
Thickness 18.5 mm External diameter {top 1050 mm bottom 1250 mm Length as per rule 1700 mm Working pressure by rules 12.1 kgs

Pitch of support stays circumferentially and vertically Are stays fitted with nuts or riveted over
Diameter of stays over thread Radius of spherical or dished furnace crown 1500 mm Working pressure by rule 8.5 kgs

Thickness of Ogee Ring 18.5 mm Diameter as per rule {D 1500 d 1250 Working pressure by rule 8.4 kgs

Combustion Chamber: Material Tensile strength Thickness of top plate
Radius if dished Working pressure by rule Thickness of back plate Diameter if circular

Length as per rule Pitch of stays Are stays fitted with nuts or riveted over
Diameter of stays over thread Working pressure of back plate by rules

The Plates: Material {front steel back steel Tensile strength {34-41 kgs Thickness {20 mm Mean pitch of stay tubes in nests 356 x 178 mm
comprising shell, Dia. as per rule {front 1350 back 1350 Pitch in outer vertical rows {89 mm Dia. of tube holes FRONT {stay 63.5 plain 65.5 BACK {stay 63.5 plain 65.5

each alternate tube in outer vertical rows a stay tube yes Working pressure by rules {front 8.6 kgs back 8.6 kgs
Orders to combustion chamber tops: Material Tensile strength

Depth and thickness of girder at centre Length as per rule
Distance apart No. and pitch of stays in each Working pressure by rule

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Crown stays: Material ☒ Tensile strength ☒ Diameter { at body of stay, ☒ or over threads ☒

No. of threads per inch ☒ Area supported by each stay ☒ Working pressure by rules ☒

Screw stays: Material ☒ Tensile strength ☒ Diameter { at turned off part, ☒ or over threads ☒ No. of threads per inch ☒

Area supported by each stay ☒ Working pressure by rules ☒ Are the stays drilled at the outer ends ☒

Tubes: Material Mild steel seamless drawn ☒ External diameter { plain 63.5 mm ☒ stay 63.5 mm ☒ Thickness { 3 mm ☒ 6 mm ☒

No. of threads per inch 11 per 1" ☒ Pitch of tubes 89 ☒ Working pressure by rules 9 kg ☒

Manhole Compensation: Size of opening in shell plate 300 x 400 ☒ Section of compensating ring 600 x 700 x 11 ☒ No. of rivets and diameter of rivet holes 24 rivets of 24 mm dia ☒ Outer row rivet pitch at ends 140 mm ☒ Depth of flange if manhole flanged ☒

Uptake: External diameter ☒ Thickness of uptake plate ☒

Cross Tubes: No. ☒ External diameters { ☒ Thickness of plates ☒

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with yes

The foregoing is a correct description,

DEUTSCHE WERFT
AKTIENGESELLSCHAFT.

Manufacturer.

Dates of Survey { During progress of work in shops - 7/10.25, 17/10.25, 29/10.25, 4/11.25, 7/11.25 ☒ Is the approved plan of boiler forwarded herewith yes 29/6.25 (If not state date of approval.)

while building { During erection on board vessel - 20/11.25, 16/12.25, 23/12.25, 4/1.26, 8/1.26 ☒ Total No. of visits 10

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Donkey Boiler has been built under special survey in accordance with the approved plan, the Secretary's letter E 29.6.25 and otherwise in conformity with the requirements of the Rules, and the Materials and workmanship are of good quality. The materials used in the construction are made at works recognised by the Committee and tested in accordance with the Rules by the Society's Surveyors. When tested by hydraulic pressure to 200 lbs per sq. inch, this Donkey Boiler was found to be tight and sound in every respect and showed no signs of weakness. Under steam it was found tight and its safety valves have been adjusted to 100 lbs p. sq. inch. It is eligible in our opinion for notification of, * N.D.B. 1.26"

Mark on Boiler:

No 402
Lloyds Test
200 lbs
W.P. 100 lbs
A.C. 7. 11. 25

Thickness of Washers:

Forw: 16 mm
aft: 16 1/2 mm

Survey Fee ... £ 4 : 4 : } When applied for, 25. 1. 1926

Travelling Expenses (if any) £ - : - : } When received, 9. 3. 1926

Friedrich A. Carstensen
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 5 FEB 1926
Assigned See other Rpt

FRI. 26 MAR 1926

