

REPORT ON BOILERS.

No. 16835

Received at London Office 25 MAY 1926

Writing Report 22nd May 1926 When handed in at Local Office 192 Port of HAMBURG

Survey held at HAMBURG Date, First Survey 1st February 26 Last Survey 11th May 1926

on the Twin Sc. Motor Vessel JAPANESE PRINCE (Number of Visits 4) Gross 6376 Tons Net 3874

Built at HAMBURG By whom built Deutsche Werft A.G. Yard No. 94 When built 1926

es made at BERLIN By whom made Allgemeine-Electricitäts-Gesellschaft Engine No. 188/189 When made 1926

s made at HAMBURG By whom made Deutsche Werft A.G. Boiler No. 228 When made 1926

al Horse Power 1313 Owners RIO-CAPE-LINE. Ltd. Port belonging to LONDON

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Gutchoffnungs-Hütte, Oberhausen (Letter for Record S)

Heating Surface of Boilers 25 m² Is forced draught fitted no Coal or Oil fired exhaust gas fired

Description of Boilers One exhaust gas fired multitubular Donkey Boiler Working Pressure 3 kg/cm² = 43 lb

by hydraulic pressure to 6 kg/cm² 280 lb Date of test 13.3.26 No. of Certificate 423 Can each boiler be worked separately

of Firegrate in each Boiler No. and Description of safety valves to each boiler two spring loaded

of each set of valves per boiler {per Rule 3800 kg/m² as fitted 3926 kg/m² Pressure to which they are adjusted 43 lb Are they fitted with easing gear yes

of donkey boilers, state whether steam from main boilers can enter the donkey boiler no, none return valve fitted

est distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

est distance between shell of boiler and tank top plating placed in machinery skylights Is the bottom of the boiler insulated yes

st internal dia. of boilers 1200 mm Length 2000 mm Shell plates: Material steel Tensile strength 34-41 kg

ess 7 mm Are the shell plates welded or flanged flanged no Description of riveting: circ. seams {end 45 degree inter. 47.7 mm

seams 45 degree Diameter of rivet holes in {circ. seams 20 mm long. seams 20 mm Pitch of rivets {47.8 mm

stage of strength of circ. end seams {plate 58% rivets 99% Percentage of strength of circ. intermediate seam {plate rivets

stage of strength of longitudinal joint {plate 58.3% rivets 100% combined Working pressure of shell by Rules 3.9 kg/cm²

ess of butt straps {outer inner No. and Description of Furnaces in each Boiler

Tensile strength Smallest outside diameter

of plain part {top Thickness of plates {crown bottom Description of longitudinal joint

sions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

plates in steam space: Material steel Tensile strength 34-41 kg Thickness 18 mm Pitch of stays

ure stays secured Working pressure by Rules 3.1 kg/cm²

plates: Material {front steel back steel Tensile strength {34-41 kg 34-41 kg Thickness {18 mm 18 mm

pitch of stay tubes in nests 200 x 300 mm Pitch across wide water spaces Working pressure {front 8 kg/cm² back 8 kg/cm²

rs to combustion chamber tops: Material Tensile strength Depth and thickness of girder

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

Working pressure by Rules Combustion chamber plates: Material

strength Thickness: Sides Back Top Bottom

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

ing pressure by Rules Front plate at bottom: Material steel Tensile strength 34-41 kg

ess 18 mm Lower back plate: Material steel Tensile strength 34-41 kg Thickness 18 mm

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

ing Pressure 5 kg/cm² Main stays: Material Tensile strength

er {At body of stay, No. of threads per inch Area supported by each stay

Ship {Over threads Screw stays: Material Tensile strength

ing pressure by Rules {At turned off part, No. of threads per inch Area supported by each stay

er {Over threads

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Working pressure by Rules ☒ Are the stays drilled at the outer ends ☒ Margin stays: Diameter ☒ At turned off part, ☒ Over threads.

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

Tubes: Material *plain mild steel* External diameter ☒ Plain *76 mm* ☒ Thickness ☒ *3 mm* ☒ No. of threads per inch *11* ☒

Pitch of tubes *100 mm* ☒ Working pressure by Rules *9 kg/cm²* ☒ Manhole compensation: Size of op.

shell plate *300 x 400 mm* ☒ Section of compensating ring *600 x 700 x 7 mm* ☒ No. of rivets and diameter of rivet holes *28 - 20 mm* ☒

Outer row rivet pitch at ends *130 mm* ☒ Depth of flange if manhole flanged ☒ Steam Dome: Material *steel castings* ☒

Tensile strength *40 kg/cm²* ☒ Thickness of shell *15 mm* ☒ Description of longitudinal joint ☒

Diameter of rivet holes ☒ Pitch of rivets ☒ Percentage of strength of joint ☒ Plate ☒ Rivets ☒

Internal diameter *200 mm* ☒ Working pressure by Rules *90 kg/cm²* ☒ Thickness of crown *20 mm* ☒ No. and dia.

stays ☒ Inner radius of crown *flat* ☒ Working pressure by Rules *11 kg/cm²* ☒

How connected to shell *riveted* ☒ Size of doubling plate under dome ☒ Diameter of rivet holes ☒

of rivets in outer row in dome connection to shell *23 mm - 58 mm* ☒

Type of Superheater

Number of elements ☒ Material of tubes ☒ Manufacturers of ☒ Tubes ☒ Steel castings ☒

Material of headers ☒ Tensile strength ☒ Internal diameter and thickness of tubes ☒

the boiler be worked separately ☒ Thickness ☒ Can the superheater be shut ☒ If alter.

Area of each safety valve ☒ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler ☒ Has the

Rules ☒ Are the safety valves fitted with easing gear ☒ Working pressure ☒ General

tubes ☒ Pressure to which the safety valves are adjusted ☒ Hydraulic test pressure they ☒

to free the superheater from water where necessary ☒ and after assembly in place ☒ Are drain cocks or valves ☒ Where m

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.

Dates of Survey ☒ During progress of work in shops *12.26 13.3.26* ☒ Are the approved plans of boiler and superheater forwarded herewith *15* ☒ Position

while building ☒ During erection on board vessel *23.4.26 11.5.26* ☒ (If not state date of approval.) ☒ if situa

Total No. of visits *4* ☒

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This gas fired Donkey boiler has built under Special Survey in accordance with the approved plan, the Secretary's E 15.10.25 and otherwise in conformity with the requirements of the Rules, and 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 86 lbs per sq. in. this Donkey Boiler was found to be tight and sound in every respect and showed no of weakness. Under steam it was found tight and its safety valves have been adjusted to 43 lbs per sq. inch. It is eligible in my opinion for notification of*

* N.I.B. 5.26

Mark on Boiler:

No 423
Lloyd's Test
86 lbs
WP 43 lbs
AC 13.3.26

Thickness of washers

port 6 mm
stark. 6 mm

Survey Fee ... £ 4 : 4 : ☒ When applied for, *12.6.1926* ☒

Travelling Expenses (if any) £ : : ☒ When received, *8.6.1926* ☒

A. Carstensen

Engineer Surveyor to Lloyd's Register of Ships

Committee's Minute *WED. 26 MAY 1926*

Assigned *See A.C. uph attached*



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