

REPORT ON BOILERS.

No. 16921

14 JUL 1926

Received at London Office

Date of writing Report 10th July 1926 When handed in at Local Office 19 Port of HAMBURG

No. in Survey held at HAMBURG Date, First Survey 1st February 26 Last Survey 26th June 1926
Reg. Book. 38543 on the Steel Twin Screw Motor Vessel CHINESE PRINCE (Number of Visits 6) Gross 6734 Tons Net 3656

Built at HAMBURG By whom built Deutsche Werft A.G. Yard No. 95 When built 1926
Engines made at BERLIN By whom made Allgemeine Electricitäts Gesellschaft Engine No. 190/91 When made 1926
Boilers made at HAMBURG By whom made Deutsche Werft A.G. Boiler No. 216 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. 216 When made 1926 Where fixed Engine room
Manufacturers of Steel Gusschloffnungs-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/cm² 100 lb

Tested by hydraulic pressure to 200 lbs Date of test 23rd April 1926 No. of Certificate 425

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

or 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 kg Thickness 11 mm

Are the shell plates welded or flanged flanged Description of riveting: circ. seams { end laps single long seams by 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 kg/cm² 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 kg Thickness 15 mm Radius 1500 mm Working pressure by rules 7.2 kg/cm²

Description of Furnace: Plain, spherical, or dished crown partial spherical Material steel Tensile strength 34-41 kg

Thickness 18.5 mm External diameter { top 1050 mm Length as per rule 1700 mm Working pressure by rules 12.1 kg/cm²

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 kg/cm²

Thickness of Ogee Ring 18.5 mm Diameter as per rule { D 1500 mm Working pressure by rule 8.4 kg/cm²

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

Tube Plates: Material { front steel Tensile strength { 34-41 kg Thickness { 20 mm Mean pitch of stay tubes in nests 356 x 178 mm

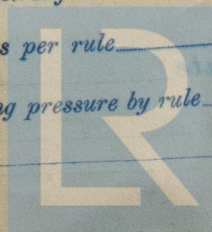
If comprising shell, Dia. as per rule { front 1350 mm Pitch in outer vertical rows { 89 mm Dia. of tube holes FRONT { stay 63.5 mm BACK { stay 63.5 mm

Is each alternate tube in outer vertical rows a stay tube yes Working pressure by rules { front 8.6 kg/cm² back 8.6 kg/cm²

Girders 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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2610-9211M

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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 mm Working pressure by rules 9 kg/cm²

Manhole Compensation: Size of opening in shell plate 300 x 400 mm Section of compensating ring 600 x 700 x 11 mm No. of rivets and diameter of rivet holes 24 rivets of 24 mm 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 while building { During progress of work in shops - 1/2.26, 13/2.26, 13/3.26, 13/4.26 Is the approved plan of boiler forwarded herewith (If not state date of approval.) yes

{ During erection on board vessel - 21/6.26, 26/6.26, Total No. of visits 6

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 plans 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 recognized 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 sign 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 my opinion for notification of "NDB 6.26."

Mark on Boiler:

No 425
Lloyd's Test
200 lbs
WP 100 lbs
A.C. 43.4.26

Thickness of washers

port 15 mm
stark 14 mm

Survey Fee ... £ 4 : 4 : } When applied for, 28th Jan 1926

Travelling Expenses (if any) £ : : } When received, 21/7/26

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

Committee's Minute TUES. 20 JUL 1926

Assigned See Report attached