

REPORT ON BOILERS.

No. 21912

Received at London Office 25 MAY 1936

Writing Report 16th May 1936 When handed in at Local Office

Port of HAMBURG

Survey held at HAMBURG

Date, First Survey 22nd JANUARY Last Survey 21st APRIL 1936

(Number of Visits 15) Gross 10389 Tons Net 5912

on the STEEL SC. "SEMINOLE"

Built at HAMBURG By whom built BLOHM & VOSS K.A.B. Yard No. 302 When built 1936

By whom made FRIED. KRUPP GERM. WFL. A.G. Engine No. 5099 When made 1936

Boiler No. 1506 When made 1936

Owners BRITISH-MEXICAN PETR. CO. LD. Port belonging to LONDON

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Mannesmann Röhren Werke. M. Heim. Gierwer. Hütte. Hücking. (Letter for Record S)

Heating Surface of Boilers 130 sq. m. Is forced draught fitted no Coal or Oil fired waste gas

Description of Boilers 1 multitubular horizontal water heat Donkey boiler Working Pressure 200 lb.

Tested by hydraulic pressure to 350 lb. Date of test 19. 2. 36. No. of Certificate 608 Can boiler be worked separately no

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 spring loaded

Area of each set of valves per boiler per Rule 5280 sq. m. as fitted 5655 sq. m. Pressure to which they are adjusted 200 lb. Are they fitted with easing gear yes

In case of donkey boilers, state whether steam from main boiler can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers situated in fore and aft

Smallest distance between shell of boiler and tank top plating 450 mm. Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 2300 mm. Length 2680 mm. Shell plates: Material S. M. Steel Tensile strength 44-50 kg/cm²

Thickness 20 mm. Are the shell plates welded or flanged flanged Description of riveting: circ. seams end double rivets

Percentage of strength of circ. end seams plate 67.8 % rivets 43-20 Diameter of rivet holes in circ. seams 29 mm long. seams 29 mm Pitch of rivets 90 mm

Percentage of strength of longitudinal joint plate 81.7 % rivets 148 % combined 93.2 % Working pressure of shell by Rules 15 kg/cm²

Thickness of butt straps outer 20 mm inner 20 mm No. and Description of Furnaces in each Boiler removable tube system

Material S. M. Steel Tensile strength 41-47 kg/cm² Smallest outside diameter

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

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

End plates in steam space: Material S. M. Steel Tensile strength 41-47 kg/cm² Thickness 28 mm Pitch of stays d = 300 mm

How are stays secured stay tubes expanded - without nuts Working pressure by Rules approved

Tube plates: Material front S. M. Steel Tensile strength 41-47 kg/cm² Thickness 25 mm

lean pitch of stay tubes in nests 130x150 mm Pitch across wide water spaces Working pressure front approved back approved

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

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

each Working pressure by Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

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

Working pressure by Rules Front plate at bottom: Material S. M. Steel Tensile strength 41-47 kg/cm²

Thickness 28 mm Lower back plate: Material S. M. Steel Tensile strength 41-47 kg/cm² Thickness 28 mm

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

Working Pressure at approved Main stays: Material Tensile strength

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

Working pressure by Rules Screw stays: Material Tensile strength

Diameter At turned off part, No. of threads per inch Area supported by each stay

Over threads

Working pressure by Rules ☒ Are the stays drilled at the outer ends ☒ Margin stays: Diameter ☒ At turned off part, or Over threads ☒
No. of threads per inch ☒ Area supported by each stay ☒ Working pressure by Rules ☒
Tubes: Material S.M. Steel External diameter ☒ Plain 47.5 mm Thickness ☒ 3.25 mm No. of threads per inch 9
Pitch of tubes 75 x 75 mm Working pressure by Rules approved Manhole compensation: Size of opening in shell plate 300 x 400 mm Section of compensating ring 25 x 680 x 780 mm No. of rivets and diameter of rivet holes 36 / 29 mm
Outer row rivet pitch at ends 86 mm 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 - Working pressure by Rules - Thickness of crown - No. and diameter of stays - Inner radius of crown - Working pressure by Rules -
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 Steam Drier: Coil Manufacturers of Mannesmann-Röhren-Werke-Laura
Number of elements 1 Material of tubes S.M. Steel Internal diameter and thickness of tubes 61.5 mm / 4.25 mm
Material of headers - Tensile strength - Thickness - Can the superheater be shut off and the boiler be worked separately yes Is a safety valve fitted to every part of the superheater which can be shut off from the boiler yes
Area of each safety valve 314 cm² Are the safety valves fitted with easing gear no Working pressure as per Rules 17.1 kg/cm² Pressure to which the safety valves are adjusted 200 lbs per sq. inch Hydraulic test pressure: tubes 45 kg/cm², castings - and after assembly in place 45 kg/cm² Are drain cocks or valves fitted to free the superheater from water where necessary no

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with as far as practicable.

The foregoing is a correct description,

KOMMANDITGESELLSCHAFT AUF AKTIE

Kuhn Manufacturer.

Dates of Survey ☒ During progress of work in shops 1936 Jan 22, 24, Feb. 3, 9, 12, 19 Are the approved plans of boiler and superheater forwarded herewith yes (If not state date of approval.)
☒ While building ☒ During erection on board vessel 26, 28 / March 3, 16, 26, 30. April 14, 17, 21 Total No. of visits 15

Is this Boiler a duplicate of a previous case yes. If so, state Vessel's name and Report No. NARRAGANSETT No 21883

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Waste Heat Donkey Boiler has been built under Special Survey in accordance with the approved plan, and the Secretary's Letter and the Society's Rules as far as they are applicable. The materials used are tested by the Society's Surveyors and the workmanship is good. It has been satisfactorily fitted on board and the safety valves have been set under steam to a pressure of 200 lbs per sq. inch. In my opinion this Donkey Boiler is eligible for notation in Reg. Bk.

D. B. (form.) 200 lbs.

Note: The handhole compensation, the riveting of which is not fully in accordance with the approved plan has been specially examined under hydraulic pressure of 350 lbs per sq. inch and was found tight and showed no signs of strain.

THICKNESS OF FRT. WASHERS:

Fr: 16 mm St: 15.5 mm.

Survey Fee ... Rsd. 188 -

Travelling Expenses (if any) £ -

When applied for, 18.5.1936

When received, 2.6.1936

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 29 MAY 1936

Assigned see J. E. Machy Report



© 2021

Lloyd's Register Foundation