

REPORT ON BOILERS.

No. 11428

SEP 13 1937

Received at London Office

Date of writing Report 7th Sept 1937 When handed in at Local Office 10th Sept 1937 Port of GOTHENBURG

No. in Reg. Book Survey held at GOTHENBURG Date, First Survey 19th August Last Survey 25th August 1937

on the TWIN SC. M/S COLOMBIA (Number of Visits 3) Tons Gross Net

Built at GOTHENBURG By whom built A.B. GÖTAVERKEN Yard No. 510 When built 1937

Engines made at GOTHENBURG By whom made Engines No. 1227-8 When made 1937

Boilers made at LOUGHBOROUGH By whom made WALTER W. COLTMAN & CO. LD Boiler No. 6166 When made 1937

Owners REDERI AKTIEBOLAGET NORDSTJERNAN Port belonging to STOCKHOLM

VERTICAL DONKEY BOILER.

Made at Loughborough By whom made Walter W. Coltmann & Co Ltd. Boiler No. 6166 When made 1937 Where fixed In machinery space.

Manufacturers of Steel

Total Heating Surface of Boiler Is forced draught fitted No Coal or Oil fired Oil fired

No. and Description of Boilers Working pressure 85 lbs/sq"

Tested by hydraulic pressure to Date of test No. of Certificate

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

Area of each set of valves per boiler per rule Pressure to which they are adjusted 85 lbs/sq" Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler No main boilers fitted Smallest distance between boiler or uptake and bunkers or woodwork 1000 mm

Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Yes Largest internal dia. of boiler Height

Shell plates: Material Tensile strength Thickness

Are the shell plates welded or flanged Description of riveting: circ. seams {end. inter.} long. seams

Dia. of rivet holes in {circ. seams long. seams} Pitch of rivets Percentage of strength of circ. seams {plate rivets} of Longitudinal joint {plate rivets combined}

Working pressure of shell by rules Thickness of butt straps {inter. inner}

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Material

Tensile strength Thickness Radius Working pressure by rules

Description of Furnace: Plain, spherical, or dished crown Material Tensile strength

Thickness External diameter {top bottom} Length as per rule Working pressure by rules

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 Working pressure by rule

Thickness of Ogee Ring Diameter as per rule {D d} Working pressure by rule

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 back} Tensile strength Thickness Mean pitch of stay tubes in nests

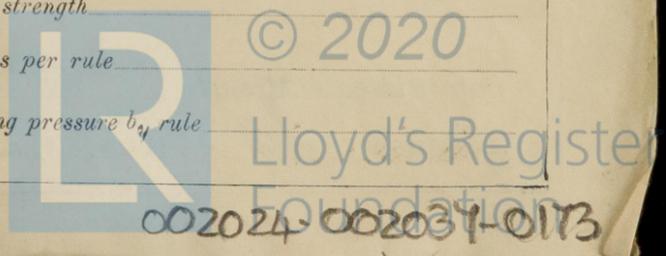
If comprising shell, Dia. as per rule {front back} Pitch in outer vertical rows Dia. of tube holes FRONT {stay plain} BACK {stay plain}

Is each alternate tube in outer vertical rows a stay tube Working pressure by rules {front back}

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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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 _____ External diameter { plain _____ stay _____ Thickness { _____
 No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____

Manhole Compensation: Size of opening in shell plate _____ Section of compensating ring _____ No. of rivets and diameter of rivet holes _____
 Outer row rivet pitch at ends _____ 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 22 inclusive for boilers been complied with Yes
 The foregoing is a correct description,

Manufacturer _____

Dates of Survey while building { During progress of work in shops - - } _____ Is the approved plan of boiler forwarded herewith No (If not state date of approval.)
 { During erection on board vessel - - } 1937 Aug. 19. 25. 25 Total No. of visits 3

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler has been fitted on board this vessel under my inspection and to my satisfaction.

The donkey boiler found marked.

LLOYD'S TEST
№ 578
TP 170 LBS □"
WP 85 LBS □"
WK 29.1.37 WK

Please see the Sheffield surveyors report № 472 on this boiler.

Survey Fee £ : ✓ :) When applied for, ✓ 19 _____
 Travelling Expenses (if any) £ : :) When received, 19 _____

Sten Johansson
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 21 SEP 1937
 Assigned Su other F.E. M

