

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 Survey held at GOTHENBURG Date, First Survey 19th August Last Survey 25th August 1937
Reg. Book on the TWIN SC. M/s COLOMBIA (Number of Visits 3) Gross Tons 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 as fitted 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 boiler fitted Smallest distance between boiler or uptake and bunkers

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

1000 mm 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. long. seams

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

Working pressure of shell by rules

Thickness of butt straps { outer 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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Lloyd's Register

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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 { _____ Working pressure by rules _____

No. of threads per inch _____ Pitch of tubes _____

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 { During progress of work in shops - - } _____ Is the approved plan of boiler forwarded herewith No (If not state date of approval.)

while building { 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 _____