

REPORT ON BOILERS.

No. 17860

Received at London Office 11 OCT 1928

Date of writing Report 13.9.1928 When handed in at Local Office 10

Port of Rotterdam

No. in Reg. Book Survey held at Rotterdam Date, First Survey 1st August Last Survey 29th August 1928

on the Waste Heat Boiler MV. POELAU LAUT (Number of Visits 8) Tons Gross Net

Built at Amsterdam By whom built Ned. Scheepb. Mij. Yard No. 189 When built 1928

Engines made at Wintuthan By whom made Sulzer Brothers Engine No. When made 1928

Boilers made at Rotterdam By whom made Roth Droogd Mij. Boiler No. 472 When made 1928

Owners Rotterdamse Lloyd Port belonging to Rotterdam

Waste Heat
VERTICAL ~~DONKEY~~ BOILER.

Made at Rotterdam By whom made Roth Droogd Mij. Boiler No. 454 When made 1928 Where fixed deck

Manufacturers of Steel Société Anonyme des Usines Métallurgiques de la Basse-Loire

Total Heating Surface of Boiler 6800 sq. ft. Is forced draught fitted Coal or Oil fired Gas

No. and Description of Boilers One vertical boiler Working pressure 42 lbs

Tested by hydraulic pressure to 144 lbs Date of test 29.8.28 No. of Certificate 892

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 as fitted 11.8 sq. ft. Pressure to which they are adjusted 45 lbs Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers

or woodwork 24" deckhouse Is oil fuel carried in the double bottom under boiler No Smallest distance between base of boiler and tank top plating

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

Shell plates: Material S. M. Steel Tensile strength 26.50 tons Thickness 1 1/2" mill

Are the shell plates welded or flanged No Description of riveting: circ. seams end laps single riveted long seams lap 2 x riv

Dia. of rivet holes in circ. seams 2 1/2" Pitch of rivets 2 1/2" Percentage of strength of circ. seams plate 63.25% rivets 42.1% of Longitudinal joint plate 63.25% rivets 84.2% combined

Working pressure of shell by rules 132 lbs 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 a 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 bottom S. M. Steel front S. M. Steel Tensile strength 26.50 tons Thickness 3/4" Mean pitch of stay tubes in nests 4 1/2"

If comprising shell, Dia. as per rule front back Pitch in outer vertical rows Dia. of tube holes Top stay 2 1/4" Bottom stay 2" plain 2 1/2" plain 2"

Is each alternate tube in outer vertical rows a stay tube Yes 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, ✓
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, ✓
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 J. M. Steel ✓ External diameter { plain 2" ✓
stay 2" ✓ Thickness { 21" 11.6 29 ✓
30.2 16 1.8 1/4 ✓
No. of threads per inch 11 Pitch of tubes 3" Working pressure by rules 155 lb
Manhole Compensation: Size of opening in shell plate 16x20" Section of compensating ring 2'4" x 2'0" No. of rivets and diameter
of rivet holes 48 @ 2 1/2" Outer row rivet pitch at ends 2 1/4" Depth of flange if manhole flanged 3 1/2"
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 ✓

The foregoing is a correct description,
ROTTERDAMSCH DROOGDOEK MAATSCHAPPIJ
DIRECTIEUR Manufacturer.

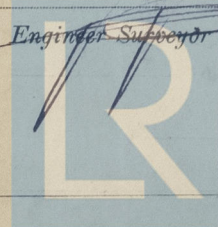
Dates of Survey { During progress of work in shops - - 1.4.0.14.17.23.27.29 Aug Is the approved plan of boiler forwarded herewith Retained
while building { During erection on board vessel - - ✓ (If not state date of approval.) 7-3-20
Total No. of visits 8

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been made according to the approved plan, Society's Rules and Secretary's letter. Material tested as required and workmanship good.
A copy of this report has been forwarded to the Society's Surveyors at Amsterdam.

Survey Fee ... 50.00: When applied for, 4/10 1920
Travelling Expenses (if any) 1.50: When received, 18.10.28

Committee's Minute TUE. 29 JAN 1929
Assigned See Ann. 26 p. 1 No 11350

Engineer Surveyor to Lloyd's Register of Shipping.



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