

REPORT ON BOILERS.

No. 15220^B

APR 13 1938

Received at London Office

Date of writing Report 9 April 1938 When handed in at Local Office 30th May 1938

Port of Amsterdam

No. in Reg. Book. 9584

Survey held at Amsterdam

Date, First Survey 17 Dec 22/3

Last Survey 4 March 1938

(Number of Visits 12 28/5 1938)

Gross 6216.62

Net 3603.90

Master Built at Odense By whom built Odense's Staalscheepvaard No. 73 When built 1930

Engines made at Amsterdam By whom made N.V. Werkspoor Engine No. 706 When made 1930

Boilers made at Amsterdam By whom made N.V. Werkspoor Boiler No. 2790 When made 1930

Nominal Horse Power 377 Owners The Anglo Saxon Petroleum Co. Ltd Port belonging to London.

MULTITUBULAR BOILERS ~~MAIN~~, ~~AUXILIARY~~, OR DONKEY.

Manufacturers of Steel Shul C of Scotland Brownie Boiler Works (Letter for Record S)

Total Heating Surface of Boilers 2560 Is forced draught fitted Yes Coal or Oil fired oil fired

No. and Description of Boilers One horizontal Multitubular boiler Working Pressure 100 lbs

Tested by hydraulic pressure to 320 lbs Date of test 4 March 38 No. of Certificate 421 Can each boiler be worked separately

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 approved as fitted 19.60"} Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes

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

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

Smallest distance between shell of boiler and tank top plating boiler plates on perforated Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 4400 mm Length 3460 mm Shell plates: Material SMS Tensile strength 29-33 ton

Thickness 24 mm Are the shell plates welded or flanged Description of riveting: circ. seams {end dbl riveting inter. 20 mm M Pitch of rivets 200 mm M

Percentage of strength of circ. end seams {plate 67.5% rivets 42.3% Percentage of strength of circ. intermediate seam {plate 25% rivets 25%

Percentage of strength of longitudinal joint {plate 25% rivets 25% combined 27.2% Working pressure of shell by Rules 104 lbs

Thickness of butt straps {outer 25 mm inner 25 mm No. and Description of Furnaces in each Boiler 3 Morison's furnaces

Material SMS Tensile strength 26-30 ton Smallest outside diameter 1130 mm

Length of plain part {top bottom Thickness of plates {crown bottom 15 mm M Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 193 lbs

End plates in steam space: Material SMS Tensile strength 26-30 ton Thickness 24 mm Pitch of stays 440 x 410 mm

How are stays secured double nuts Working pressure by Rules 190 lbs

Tube plates: Material {front SMS back SMS Tensile strength 26-30 ton Thickness 23 mm

Mean pitch of stay tubes in nests 240 mm Pitch across wide water spaces 360 mm Working pressure {front 230 lbs back 210 lbs

Girders to combustion chamber tops: Material SMS Tensile strength 20-22 ton Depth and thickness of girder

at centre 220 x 30 mm Length as per Rule 700 mm Distance apart 220 mm No. and pitch of stays

in each 3 200 mm Working pressure by Rules 210 mm Combustion chamber plates: Material SMS

Tensile strength 26-30 ton Thickness: Sides 10 mm Back 19 mm Top 10 mm Bottom 25 mm

Pitch of stays to ditto: Sides 200 x 200 mm Back 226 x 195 Top 200 x 220 Are stays fitted with nuts or riveted over welded over

Working pressure by Rules 196 lbs Front plate at bottom: Material SMS Tensile strength 26-30 ton

Thickness 23 mm Lower back plate: Material SMS Tensile strength 26-30 ton Thickness 23 mm

Pitch of stays at wide water space 366 mm Are stays fitted with nuts or riveted over fitted with nuts

Working Pressure 190 lbs Main stays: Material SMS Tensile strength 20-22 ton

Diameter {At body of stay, or Over threads 3" No. of threads per inch 8 Area supported by each stay 3060"

Working pressure by Rules 220 lbs Screw stays: Material SMS Tensile strength 26-30 ton

Diameter {At turned off part, or Over threads 1 1/2" No. of threads per inch 11 Area supported by each stay 6025"

Working pressure by Rules 105 lbs. Are the stays drilled at the outer ends Yes Margin stays: Diameter { At turned off part, 1 5/8" or Over threads }
No. of threads per inch 11 Area supported by each stay 17.50" Working pressure by Rules 196 lbs
Tubes: Material Iron External diameter { Plain 2 3/4" Stay 2 3/4" } Thickness { 11/16" 5/16" } No. of threads per inch 11
Pitch of tubes 100 x 90 mm Working pressure by Rules plain tubes 215 lbs 1 1/8" 145 lbs Manhole compensation: Size of opening in shell plate 370 x 470 Section of compensating ring 370" No. of rivets and diameter of rivet holes 54-32 mm
Outer row rivet pitch at ends 280 mm Depth of flange if manhole flanged 80 mm Steam Dome: Material None
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 Manufacturers of { Tubes Steel forgings Steel castings }
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately
Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules
Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes forgings and castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes
WERKSPoor N.V. Shuppert The foregoing is a correct description, Manufacturer.

Dates { During progress of work in shops - - - 24.12.17 Jan 24.25 Feb 1-2-7.12.22.23.20 March 3.4 } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) 10-1-37
while building { During erection on board vessel - - - 22.5.20 14.6.15 23.5.24 28.5.38 } Total No. of visits 175.12 + CPN.9 = 21.

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. "M.V. ONOBA" Insured 15/26

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The Boiler has been made in accordance with the approved plan, Secretary's letters, material tested as per rules, workmanship throughout good.
Boiler hydraulic tested as per rules found sound & tight
The Boiler has been shipped to Odense and will be placed aboard Messrs. Odense's Yard No. 73
The boiler has been fitted in the vessel in accordance with the Society Rules and the approved plans, and on completion of the work the boiler was tested under steam and found satisfactory and the safety valves adjusted to 180 lbs. per sq. inch.
Recommend the vessel to have addition of 100 LB. in the Reg. Book.

Survey Fee ... 204 : When applied for, 11-4-1938
Travelling Expenses (if any) £ : When received, 10-5-38
PAID AS PER LETTER C.Y. DATED 10/5/38
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned See Cpn. 76 10589
FRI. 24 JUN 1938
© 2020 Lloyd's Register Foundation