

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 14 Dec 22/3 Last Survey 4 March 1938

on the M.V. OTINA (Number of Visits 12) Tons {Gross 6216.62 Net 3603.90

Master [Signature] 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 Steel Co of Scotland Brown's 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 Yes

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

Area of each set of valves per boiler {per Rule approved 19.60" 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 boilers

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

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 2 mm Are the shell plates welded or flanged Yes Description of riveting: circ. seams {end dbl welded inter. Yes

Long. seams {dbl butt strap treble rivet Diameter of rivet holes in {circ. seams 30 mm long. seams 30 mm Pitch of rivets {27 mm 200 mm

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

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 Moriston's furnaces

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

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

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

End plates in steam space: Material SMS Tensile strength 26-30 ton Thickness 29 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 22 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

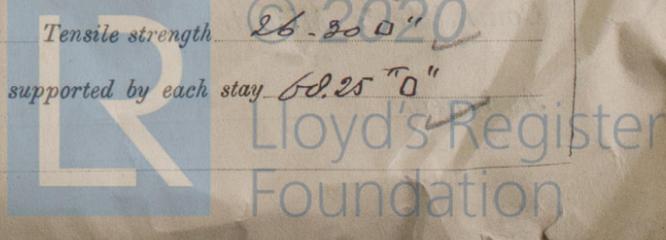
Pitch of stays at wide water space 366 mm Are stays fitted with nuts or riveted over filled with nuts

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

Diameter {At body of stay, 3" or Over threads Yes 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, 1 1/2" or Over threads Yes No. of threads per inch 11 Area supported by each stay 6025"



2720-181M

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"
 No. of threads per inch 11 Area supported by each stay 77.50" Working pressure by Rules 196 lbs
 Tubes: Material Iron External diameter Plain 2 3/4" Thickness 5/16" & 7/16" No. of threads per inch 11
 Pitch of tubes 100 x 90 mm Working pressure by Rules plain tubes 215 lbs 7/16" 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
 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 _____

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

WERKSPOR N.V.

Shuppert

The foregoing is a correct description,

Manufacturer.

Dates of Survey Dec 17, Jan 24, 25, Feb 1-2-7-12-22-23-20 Are the approved plans of boiler and superheater forwarded herewith
 while building March 3, 4 (If not state date of approval.) 10-1-37
 Total No. of visits AMS-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" Insup 15126

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
 at 180 lbs. per sq. inch.
 Recommend the vessel to have addition of I.O.B. 180 LB. in the Dry Dock.

Shuppert

Survey Fee 204 : } When applied for, 11-4-1938
 Travelling Expenses (if any) £ _____ : } When received, _____

SURVEYOR TO LLOYD'S REGISTER OF SHIPPING

PAID AS PER LETTER
 C.Y. DATED 10/5/38
 CH

Shuppert
 Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 24 JUN 1938

Committee's Minute _____
 Assigned See Cpn. 76 10589



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