

REPORT ON BOILERS.

11 JUL 1930

No.

95135

Received at London Office 24 MAY 1930

Date of writing Report 21 May 1930

When handed in at Local Office 24 MAY 1930

Port of London

No. in Survey held at Hitchin

Date, First Survey 18 March 1930 Last Survey 15 May 1930

Reg. Book 32998 on the MOTOR TANKER "RUSOILPROD"

(Number of Visits 3) Gross 835 Tons Net 425

Built at Bristol

By whom built Chas. Hill & Sons.

Yard No. 179 When built 1930

Engines made at Bremen

By whom made M.A.N.

Engine No. 320100 When made 1929

Boilers made at Hitchin

By whom made Spencer-Hopwood Limited

Boiler Nos 10840/1 When made 1930

Owners Russian Oil Products Ltd.

Port belonging to Bristol

VERTICAL DONKEY BOILER.

Made at Hitchin By whom made Spencer-Hopwood Ltd Boiler Nos 10840/1 When made 1930 Where fixed on flat in E. Room

Manufacturers of Steel Stewarts and Lloyd Ltd. and British Mannesmann Tubes Co. Ltd.

Total Heating Surface of Boiler 343 sq. ft. Is forced draught fitted No Coal or Oil fired oil fired.

Description of Boilers Two vertical Shortened Spencer-Hopwood Patent Working pressure 100 lb. sq. in.

Tested by hydraulic pressure to 200 lb. sq. in. Date of test 15 May 1930 No. of Certificate 1348/9.

No. of Firegrate in each Boiler No. and Description of safety valves to each boiler Two Spring loaded.

No. of each set of valves per boiler per rule 4.5 sq. in. as fitted 9.8 sq. in. Pressure to which they are adjusted 105 lb. Are they fitted with easing gear Yes

Whether steam from main boilers can enter the donkey boiler Main stop valve. Non return Smallest distance between boiler or uptake and bunkers

Woodwork None. No tanks oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating 5'-5"

Is the base of the boiler insulated Largest internal dia. of boiler 5'-6" Height 10'-1 1/2"

Shell plates: Material Steel Tensile strength 28/32 ton sq. in. Thickness 7/16"

Are the shell plates welded or flanged No Description of riveting: circ. seams end S.R. Lap. inter. S.R. Lap. long. seams D.R. Lap.

No. of rivet holes in circ. seams 7/8" Pitch of rivets 2 5/32" Percentage of strength of circ. seams plate 59.4 rivets 52.3 of Longitudinal joint plate 68.1 rivets 82.0 combined

Working pressure of shell by rules 119 lb. sq. in. Thickness of butt straps outer inner

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

Tensile strength 26/30 ton sq. in. Thickness 2 3/32" Radius Working pressure by rules 111 lb. sq. in.

Description of Furnace: Plain, spherical, or dished crown Plain. Flat crown Material Steel Tensile strength 26/30 ton sq. in.

Thickness 1 1/16" External diameter top 4'-4" bottom 5'-1 1/2" Length as per rule 5'-3 1/2" Working pressure by rules 128 lb. sq. in.

Attachment 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 Flat. 1 1/16" thick Working pressure by rule 331 lb. sq. in.

Thickness of Ogee Ring Diameter as per rule 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 Steel back Steel Tensile strength 26/30 ton sq. in. Thickness 1 1/16" Mean pitch of stay tubes in nests 12.2"

Comprising shell, Dia. as per rule front back Pitch in outer vertical rows 6 1/4" Dia. of tube holes FRONT stay 2 1/4" plain 2 1/4" BACK stay 2 1/2" plain 2 1/2"

Each alternate tube in outer vertical rows a stay tube Yes Working pressure by rules front 112 lb. sq. in. back 112 lb. sq. in.

Orders to combustion chamber tops: Material (Supported by uptake) 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 Steel External diameter { plain 2 1/4" stay 2 1/4" Thickness { 11 S.H.G. 1/4"

No. of threads per inch 11 Pitch of tubes 3 1/8" V x 3" H. Working pressure by rules 112 lb

Manhole Compensation: Size of opening in shell plate 14" x 11" Section of compensating ring 24" dia x 1/2" thick No. of rivets and diameter of rivet holes 2 rows of 12 x 7/8" rivets Outer row rivet pitch at ends 5.6" Depth of flange if manhole flanged ☒

Uptake: External diameter 1' - 11 5/8" Thickness of uptake plate 1 1/16"

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,
SPENCER-HOPWOOD, LTD.

Manufacturer.

Dates of Survey { During progress of work in shops - - { 18.3.30, 24.4.30, 15.5.30. Is the approved plan of boiler forwarded herewith ☒ 5.3.30.
(If not state date of approval.)
while building { During erection on board vessel - - { 1930 June 14, 16, 21, 24 Total No. of visits 7.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Workmanship good.

These two vertical boilers have been constructed under special survey, in accordance with the approved plan and the Rules. The material used has been made at approved works and tested by the Surveyors to this Society.

They are submitted as eligible for notation in the Register Book when fitted onboard in accordance with the Rules and the safety valves adjusted under them.

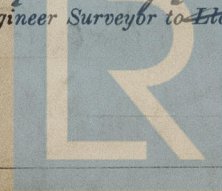
These boilers have now been fitted & secured on board the above mentioned vessel & satisfactorily tested under steam according to the Rule requirements.

Survey Fee ... £ 8 : 8 : } When applied for, 24 MAY 1930

Travelling Expenses (if any) £ 2 : 9 : } When received, 27 5 19 30

John W. Gwynne
Geo. A. Lang
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 12 AUG 1930 TUE. 21 OCT 1930
Assigned La Bn 12358



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