

REPORT ON BOILERS.

No. 23611^d

Received at London Office 10 APR 5

Date of writing Report 9-4-1935 When handed in at Local Office 10 Port of Rotterdam

No. in Survey held at Rotterdam Date, First Survey 18-3-35 Last Survey 30-3-1935

20kg Reg. Book 2007 on the motor vessel "FRANCOIS TIXIER" ex. Little Bay (Number of Visits 5) Gross 461 Tons Net 221

Built at Slikkerveer By whom built N.V. Scheepw. "De Maas" Yard No. When built 1918

Engines made at Mannheim By whom made Motorenwerke Mannheim 19. Engine No. When made 1935

Boilers made at Newark By whom made The Farrar boilerworks Boiler No. When made 1935

Owners Societe Dunhuquoise au Cabotage Port belonging to Dunhuque

VERTICAL DONKEY BOILER.

Made at Newark By whom made The Farrar boilerworks Boiler No. When made 1935 Where fixed engine room

Manufacturers of Steel The Appleby Iron Company Ltd.

Total Heating Surface of Boiler 120 sq ft Is forced draught fitted no Coal or Oil fired oil-fired.

No. and Description of Boilers one vertical cross-tube boiler Working pressure 100 lb

Tested by hydraulic pressure to 200 lb Date of test 21-3-35 No. of Certificate

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 washers 3 7/8 + 5 7/8 Pressure to which they are adjusted 100 lb 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 2 feet Is oil fuel carried in the double bottom under boiler no Smallest distance between base of boiler and tank top plating

over 2 feet Is the base of the boiler insulated no Largest internal dia. of boiler 4'-11 1/4" Height 12'-3"

Shell plates: Material S.M. steel Tensile strength 29.4 tons Thickness 3/8"

Are the shell plates welded or flanged Description of riveting: circ. seams 50 long seams Lap double riv.

Dia. of rivet holes in circ. seams 13/16" Pitch of rivets 2" Percentage of strength of circ. seams plate 93.7% rivets 84% of Longitudinal joint plate 60.3% rivets 88% combined 71.6%

Working pressure of shell by rules 117 lb Thickness of butt straps outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished partial spherical Material S.M. steel

Tensile strength 20.4 tons Thickness 5/8" Radius 4'-6" Working pressure by rules 155 lb

Description of Furnace: Plain, spherical, or dished crown vertical with cross-tubes Material S.M. steel Tensile strength 28.8 tons

Thickness 1/2" top 9/16" External diameter top 3'-10 1/2" Length as per rule 5'-9" Working pressure by rules

Pitch of support stays circumferentially 4" and vertically 1'-4" Are stays fitted with nuts or riveted over riveted over

Diameter of stays over thread 1" Radius of spherical or dished furnace crown 3'-9" Working pressure by rule

Thickness of Ogee Ring 1/2" Diameter as per rule D 4'-11 1/2" Working pressure by rule 116 lb

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 Tensile strength Thickness Mean pitch of stay tubes in nests back

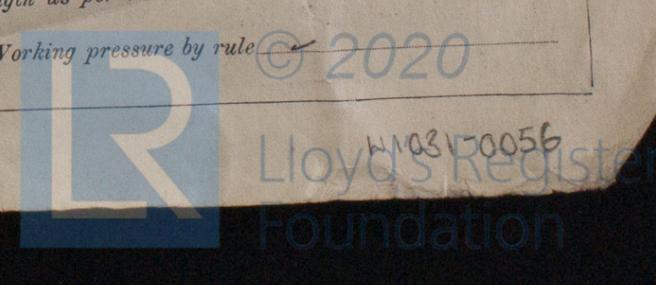
If comprising shell, Dia. as per rule front Pitch in outer vertical rows Dia. of tube holes FRONT stay BACK stay plain plain

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



Crown stays: Material Tensile strength Diameter { at body of stay, $4 \times 1 \frac{3}{8}$ " or over threads, $1 \frac{1}{2}$ "
 No. of threads per inch 11 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 {
 No. of threads per inch Pitch of tubes Working pressure by rules
Manhole Compensation: Size of opening in shell plate $12" \times 15"$ Section of compensating ring $21" \times 24" \times \frac{1}{2}"$ No. of rivets and diameter
 of rivet holes $32 \times \frac{3}{4}"$ Outer row rivet pitch at ends Depth of flange if manhole flanged
Uptake: External diameter $15"$ Thickness of uptake plate $\frac{9}{16}"$
Cross Tubes: No. 4 External diameters { $0 \frac{1}{2}"$ Thickness of plates $\frac{3}{8}"$

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with Yes

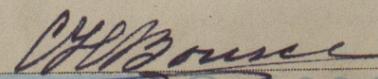
The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } Is the approved plan of boiler forwarded herewith Yes
 (If not state date of approval.)
 { During erection on board vessel - - } 18-21-25-20-30/3-35. Total No. of visits 5.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This donkey boiler has been examined internally and externally, scantlings verified with the approved plan, tested to 200 lb. and found sound and tight, and merits in my opinion the Committee's approval.*

Survey Fee ... £ 60.00 : When applied for, 30.3 19 35
 Travelling Expenses (if any) £ : : When received, 16.4 19 35 ND
 $25/4$


 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **TUE. 30 APR 1935**
 Assigned

