

REPORT ON BOILERS.

No. 15164^c

Received at London Office

MAR - 3 1938

Date of writing Report 22 Feb 1938 When handed in at Local Office 19 Port of Amsterdam

No. in Survey held at Hengelo Amsterdam Date, First Survey 15 July Last Survey 15 February 1938
Reg. Book

on the Single Screw Motor Vessel "TRAFALGAR" (Number of Visits 14) Gross 5542 Tons Net 3200.51

Built at Amsterdam By whom built Ned Scheepb M4 Yard No. 260 When built 1930
Engines made at Hengelo By whom made N.V. Stork & Co Engine No. 4000 When made 1930
Boilers made at Hengelo By whom made N.V. Stork & Co Boiler No. 4011 When made 1930
Owners Wilhelm Wilhelmsen Port belonging to Tjensberg

VERTICAL DONKEY BOILER. Clarkson.

Made at Hengelo By whom made N.V. Stork & Co Boiler No. 4011 When made 1937 Where fixed 1930

Manufacturers of Steel Puhstahl A.G. Henrichshütte Hattingen

Total Heating Surface of Boiler 2207 Is forced draught fitted no Coal or Oil fired oil fired

No. and Description of Boilers One Clarkson Phumble tube boiler Working pressure 7.25 kg/cm²

Tested by hydraulic pressure to 200 LBS Date of test 8-9-37 No. of Certificate 412

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 1 - double flared high lifting spring loaded

Area of each set of valves per boiler per rule 10.2 cm² as fitted 12.6 cm² Pressure to which they are adjusted 100 LBS Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler Is oil fuel carried in the double bottom under boiler

Smallest distance between boiler or uptake and bunkers Is the base of the boiler insulated yes Largest internal dia. of boiler 1700 mm Height 4050 mm

Shell plates: Material SMS Tensile strength 44-50 kg Thickness 10 mm

Are the shell plates welded or flanged no Description of riveting: circ. seams end double riveted inter. Long & riveted long. seams double riveted

Dia. of rivet holes in circ. seams 20 mm Pitch of rivets 62.3 mm 52 mm 74 mm Percentage of strength of circ. seams plate 61/70 rivets 50/76 of Longitudinal joint plate 73/80 rivets 130/25 combined

Working pressure of shell by rules 0.15 kg Thickness of butt straps outer 10 mm inner 10 mm

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished top plate Material SMS

Tensile strength 41-47 kg Thickness 10 mm Radius = 1700 mm Working pressure by rules 7.3 kg

Description of Furnace: Plain, spherical, or dished crown Dished crown Material SMS Tensile strength 41-47 kg

Thickness 22 mm External diameter top 900 mm bottom 1700 mm Length as per rule Working pressure by rules 7.64 mm

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 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 SMS Tensile strength 41-47 kg Thickness 22 mm Mean pitch of stay tubes in nests

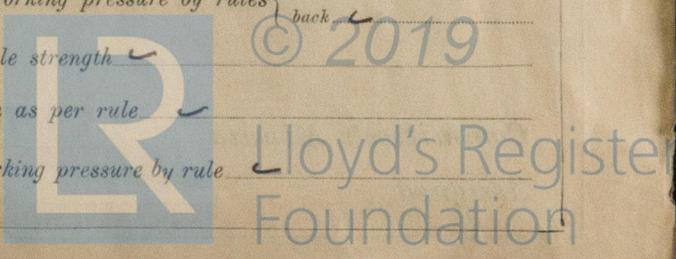
If comprising shell, Dia. as per rule front back Pitch in outer vertical rows 76 mm Dia. of tube holes FRONT 2 3/4 BACK plain stay

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, 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 S.M.S External diameter plain 2 3/4" stay Thickness 9 B.W.G.
 No. of threads per inch Pitch of tubes hot 120 m M ant 76 m M Working pressure by rules 10.9 m M
Manhole Compensation: Size of opening in shell plate 300 x 400 Section of compensating ring 120 x 20 m M No. of rivets and diameter
 of rivet holes 36 - 20 m M Outer row rivet pitch at ends 160 m M Depth of flange if manhole flanged 75 m M
Uptake: External diameter 500 m M Thickness of uptake plate 17 m M
Cross Tubes: No. External diameters Thickness of plates

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,
MACHINEFABRIEK GEBR. STORK & Co. N.V.

Arromy Manufacturer.

Dates of Survey During progress of work in shops - July 15-20-24 Aug 6-19-27 Sept 3-8 Is the approved plan of boiler forwarded herewith EO-6-27
(If not state date of approval.)
 During erection on board vessel - Nov. 2-25, Dec 2-20, Jan 6, Feb 16 Total No. of visits 14

Is this Boiler a duplicate of a previous case no If so, state Vessel's name and Report No.

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

The Boiler has been made under special survey in accordance with the approved plans & Secretary's letters, material duly tested workmanship throughout good

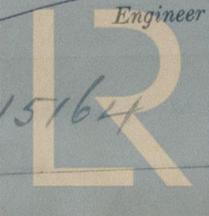
Survey Fee ... £ 50.40 : When applied for, 19 28 14/3
 Travelling Expenses (if any) £ : : When received, 22-3

Engeloff
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned

TUE 15 MAR 1938

See Ans. J.C. 151624



Lloyd's Register
 Foundation