

REPORT ON BOILERS.

No. 15164^D
MAR -3 1938

Received at London Office

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

No. in Reg. Book Survey held at Hengelo Amsterdam Date, First Survey 3 Sept Last Survey 16 Feb 1938

on the Single Screw Motor Vessel "TRAFALGAR" (Number of Visits 12.) Tons {Gross 5642 Net 3300.51

Built at Amsterdam By whom built Ned Scheepb M'g 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. 4040 When made 1937/0

Owners Wilh. Wilhelmsen Port belonging to Tjensberg

VERTICAL DONKEY BOILER. ECONOMISER.

Made at Hengelo By whom made N.V. Stork & Co Boiler No. 4040 When made 1937 Where fixed 1930

Manufacturers of Steel Pulstahl A.G. Abt Hennrich hütte Hattingen

Total Heating Surface of Boiler Is forced draught fitted Coal or Oil fired exhaust gas

No. and Description of Boilers 1 Clarkson Cy 420 Luptate Silencer-economiser Working pressure 7 1/2 kg/cm²

Tested by hydraulic pressure to 14 kg Date of test 26-10-37 No. of Certificate 415

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 1-30 mm² dth high lifting marine type

Area of each set of valves per boiler {per rule 7.1 cm² as fitted 7.1 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 Smallest distance between boiler or uptake and bunkers or woodwork

Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated yes Largest internal dia. of boiler 1200 mm Height 3480 mm

Shell plates: Material SMS Tensile strength 44-50 kg Thickness 15 mm

Are the shell plates welded or flanged Ends of long seams welded Description of riveting: circ. seams {end single riveted inter. long. seams double riveted

Dia. of rivet holes in {circ. seams 23 mm long. seams 23 mm Pitch of rivets {53.5 mm 92 mm Percentage of strength of circ. seams {plate 56.2% rivets 43.9% of Longitudinal joint {plate 75.2% rivets 92.2% combined

Working pressure of shell by rules 10.2 kg Thickness of butt straps {outer 13 mm inner 13 mm

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

Tensile strength 41-47 kg Thickness Top drumhead 10 mm Bottom 15 mm Radius R 1200 r 120 Working pressure by rules 10.4 kg

Description of Furnace: Plain, spherical, or dished crown Material Tensile strength

Thickness External diameter {top bottom Length as per rule Working pressure by rules

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 {D a 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 15 mm back 15 mm Tensile strength 40-50 kg Thickness 15 mm Mean pitch of stay tubes in nests

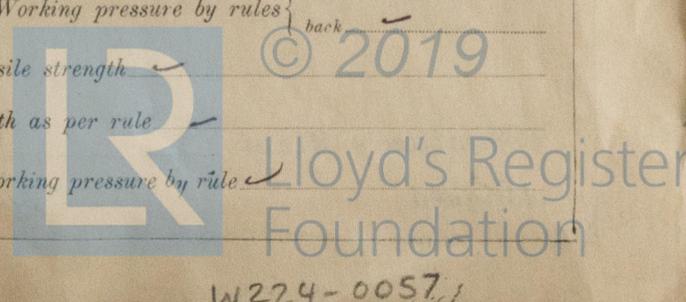
of comprising shell, Dia. as per rule {front back Pitch in outer vertical rows 150 mm Dia. of tube holes FRONT {stay plain 2" BACK {stay plain

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



W224-0057

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 SMS External diameter plain 2" stay Thickness

No. of threads per inch Pitch of tubes Horizontal staggered 66 mm between rows Working pressure by rules 16.8 kg

Manhole Compensation: Size of opening in shell plate Section of compensating ring No. of rivets and diameter of rivet holes Outer row rivet pitch at ends Depth of flange if manhole flanged 75 mm

Uptake: External diameter Thickness of uptake plate

Cross Tubes: No. External diameters Thickness of plates

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

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

[Signature] Manufacturer

Dates of Survey while building During progress of work in shops - - 3. Sept. 8. Sept. 30. Oct. 11-15. 22-26
 During erection on board vessel - - Nov. 25. Dec. 20. Jan. 6. Feb. 16

Is the approved plan of boiler forwarded herewith E 20-6-30
 (If not state date of approval.)

Total No. of visits 12

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

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

The Silencer economiser has been built under special survey in accordance with approved plan & Secretary's letters, workmanship throughout good

Survey Fee £ 50.40 : When applied for. 19 38
 Travelling Expenses (if any) £ : When received. 22-3 19 38

[Signature]
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned

TUE 15 MAR 1934
 See Ans. J.E 15164

