

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
Reg. Book

Survey held at

Hengelo Amsterdam

Date, First Survey

15 July

Last Survey

15 February 1938

on the

Single Screw Motor vessel "TRAFALGAR"

(Number of Visits 14)

Gross 5542

Net 3200.51

Built at

Amsterdam

By whom built

Med Scheep 14

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 R. G. Henrichhille Hattungen

Total Heating Surface of Boiler

220.4

Is forced draught fitted

no

Coal or Oil fired

oil fired

No. and Description of Boilers

One Clarkson Phosphate tube boiler

Working pressure

7.2 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 phd 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

✓

Smallest distance between boiler or uptake and bunkers

or ^{bulkhead} ~~woodwork~~

30"

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

1720 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

1 end dth rivets
2 end single rivets on top
inter. Long & rivets

long. seams dth rivets

Dia. of rivet holes in

circ. seams 20 mm
long. seams 20 mm

Pitch of rivets

60.3 mm
52 mm
74 mm

Percentage of strength of circ. seams

plate 61/70
rivets 50/76

of Longitudinal joint

plate 72/80
rivets 130/20
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

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 SMS
back 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

stay 2 3/4"
plain

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

✓

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W224-0056

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 horiz 120 m/m vert 76 m/m Working pressure by rules 10.9 kg
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.

Armony 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
 while building ☒ During erection on board vessel - Nov. 2-25, Dec 2-20, Jan 6, Feb 16 Total No. of visits 14
 (If not state date of approval.)

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
 Travelling Expenses (if any) 22.3 : When received, 19 28.4/3

Burgdorff

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned

TUE 15 MAR 1938

See Ans. J.E. 151624

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