

REPORT ON BOILERS.

No. 13838

Received at London Office

F9 JUL 1953

Date of writing Report

26.6.53

1953

When handed in at Local Office

3.7.53

1953

Port of TRIESTE

No. in Survey held at

TRIESTE

Date, First Survey See Rpt. 4B

Last Survey 17 JUNE

1953

91629

on the

Motor Vessel "EL NIL"

(Number of Visits

Gross 2737

Tons Net 1439

Built at TRIESTE

By whom built

Cantieri Riuniti dell'Adriatico

Yard No. 1779

When built 1953

Engines made at

DO

By whom made

DO

Engine No. 5579

When made 1953

Boilers made at

DO

By whom made

DO

Boiler No. 1970

When made 1953

Owners Alexandria Navigation Co., S.A.E.

Port belonging to

Alexandria

VERTICAL DONKEY BOILER.

Made at TRIESTE

By whom made

Cant. Riunt. dell'Adriatico

Boiler No. 1970

When made 1953

Where fixed Forwd. Main E.R. Main Deck Level

Manufacturers of Steel Alpine Montangesellschaft of Donawitz

Total Heating Surface of Boiler 64,2 sq.mts.

Is forced draught fitted yes

Coal or Oil fired oil

No. and Description of Boilers One - Clarkson type - thimble tubes Oil & gas fired

Working pressure 7 Kgs/cm²Tested by hydraulic pressure to 14 Kgs/cm²

Date of test 26.3.53

No. of Certificate 395

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

two - spring loaded

Area of each set of valves per boiler

per rule 1613 mm²as fitted 3180 mm²Pressure to which they are adjusted 7 Kgs/cm²

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

Is oil fuel carried in the double bottom under boiler

no

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

yes

Largest internal dia. of boiler

1576 mm

Height 4484 mm

Shell plates: Material S.M.S.

Tensile strength 41-47 Kgs/mm²

Thickness 20 mm

Are the shell plates welded or flanged

welded

Description of riveting: circ. seams

end

long. seams

Dia. of rivet holes in

circ. seams

long. seams

Pitch of rivets

Percentage of strength of circ. seams

plate

of Longitudinal joint

plate

rivets

combined

Working pressure of shell by rules

As approved.

Thickness of butt straps

outer

inner

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

dished

Material

S.M.S.

Tensile strength 41-47 Kgs/mm²

Thickness

15 mm

Radius

1800 mm

Working pressure by rules

As approved.

Description of Furnace: Plain, spherical, or dished crown

dished

Material

S.M.S.

Tensile strength

41-47 Kgs/mm²

Thickness 16 mm

External diameter

top 774 mm

bottom 1550 mm

Length as per rule

Working pressure by rules

As approved.

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

1300 mm

Working pressure by rule

As approved.

Thickness of Ogee Ring

13 mm

Diameter as per rule

D 1576

d 1550

Working pressure by rule

As approved.

Combustion Chamber: Material

S.M.S.

Tensile strength 41-47 Kgs/cm²

Thickness of top plate

16 mm

Diameter if dished 650 mm

Working pressure by rule

As approved

Thickness of back plate

Diameter if circular 774 mm

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

As approved.

Tube Plates: Material

S.M.S.

Tensile strength

41-47 Kgs/cm²

Thickness

20 mm

Mean pitch of stay tubes in

139 mm

120,55 mm

Comprising shell, Dia. as per rule

out in 774 mm

Pitch in outer vertical rows

160 mm

Dia. of tube holes

out

stay

in

stay

plain 64 mm

plain 51 mm

Does each alternate tube in outer vertical rows a stay tube

no

Working pressure by rules

front

back

As approved.

Girders to combustion chamber tops: Material

Tensile strength

Thickness 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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