

REPORT ON BOILERS.

No. 13838

Received at London Office **9 JUL 1953**

Date of writing Report 26.6.53 1953 When handed in at Local Office 3.7.53 Port of **TRIESTE**

No. in Survey held at TRIESTE Date, First Survey See Rpt. 4B Last Survey 17 JUNE 1953
Reg. Book 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/cm²

Tested 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 mm²
as fitted 3180 mm² Pressure 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 ample

Is oil fuel carried in the double bottom under boiler no Smallest distance between base of boiler and tank top plating on separate deck

Is the base of the boiler insulated yes Largest internal dia. of boiler 1570 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 inter.

Dia. of rivet holes in circ. seams Pitch of rivets long. seams Percentage of strength of circ. seams plate of Longitudinal joint plate
long. seams rivets combined

Working pressure of shell by rules As approved. Thickness of butt straps outer inner 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 Length as per rule bottom 1550 mm Working pressure by rules As approved.

Attachment of support stays circumferentially and vertically Are stays fitted with nuts or riveted over yes

Diameter of stays over thread yes 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 Working pressure by rule d 1550 As approved.

Combustion Chamber: Material S.M.S. Tensile strength 41-47 Kgs/cm² Thickness of top plate 16 mm

Radius if dished 650 mm Working pressure by rule As approved Thickness of back plate yes Diameter if circular 774 mm

Length as per rule yes Pitch of stays yes Are stays fitted with nuts or riveted over yes

Diameter of stays over thread yes Working pressure of back plate by rules As approved.

Tube Plates: Material out in S.M.S. Tensile strength 41-47 Kgs/cm² Thickness 20 mm Mean pitch of stay tubes in crosses 139 mm

Comprising shell, Dia. as per rule out in 774 mm Pitch in outer vertical rows 160 mm Dia. of tube holes out 120,55 mm
in 118 mm FRONT 64 mm BACK 51 mm

Does each alternate tube in outer vertical rows a stay tube no Working pressure by rules front As approved. back

Material yes Tensile strength yes

Thickness and thickness of girder at centre yes Length as per rule yes

Distance apart yes No. and pitch of stays in each yes Working pressure by rule yes



