

REPORT ON BOILERS.

No. 21512

Received at London Office

22 MAY 1956

Rpt. 5b.

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Owners

Date of writing Report 23/4/56 When handed in at Local Office 2/5/56 Port of GENOA

No. in Survey held at Genoa & La Spezia Date, First Survey 21/2/55 Last Survey 7/4/56 19

Reg. Book (Number of Visits 21 Tons Gross 11249 Net -)

on the "GIACINTO MOTTA"

Built at Muggiano-La Spezia By whom built S.A. Ansaldo, Cantiere di Muggiano. Yard No. 1504 When built 1956

Engines made at Genoa By whom made S.A. Ansaldo, Stabilimento Meccanico. Engine No. 757001 When made 1955

Boilers made at Genoa-Sampierdarena By whom made S.A. Ansaldo, Stab. Meccanico Boiler No. 5965 When made 1955

"Carbogas" Società di Navigazione S.p.A. Port belonging to Palermo

VERTICAL DONKEY BOILER.

Made at Genoa Sampierdarena By whom made S.A. Ansaldo, Stabilimento Meccanico Boiler No. 5965 When made 1955 Where fixed on flat aft. of engine room

Manufacturers of Steel Società Italiana Acciaierie Cornigliano

Total Heating Surface of Boiler 35 sq.m. Is forced draught fitted - Coal or Oil fired oil fired

No. and Description of Boilers one - thimble tube Ansaldo Clarkson Working pressure 7 kg/cm2

Tested by hydraulic pressure to 14 kg/cm2 Date of test 15-9-55 No. of Certificate 335

Area of Firegrate in each Boiler - No. and Description of safety valves to each boiler Two - ordinary spring loaded safety valves.

Area of each set of valves per boiler { per rule 2650 sq.mm. Pressure to which they are adjusted 7 kg/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 - Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated yes Largest internal dia. of boiler 2000 mm Height 4450 mm

Shell plates: Material S.M. Steel Tensile strength 42/48 kg/mm2 Thickness 16 mm

Are the shell plates welded or flanged fusion welded Description of riveting: circ. seams { end double long seams

Dia. of rivet holes in { circ. seams 28 mm. Pitch of rivets 88,6 mm. Percentage of strength of circ. seams { plate 68,3 of Longitudinal joint rivets 74,5 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 partial spherical Material S.M. Steel

Tensile strength 42/48 kg/mm2 Thickness 19 mm. Radius 1690 mm. Working pressure by rules as approved

Description of Furnace: Plain, spherical, or dished crown dished crown Material S.M. Steel Tensile strength 42/48 kg/mm2

Thickness 15 mm. 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 dished furnace crown 900 mm Working pressure by rule as approved

Thickness of Ogee Ring 22 mm. Diameter as per rule { D 2000 mm. Working pressure by rule as approved

Combustion Chamber: Material S.M. Steel Tensile strength 42/48 kg/mm2 Thickness of top plate -

Radius if dished - Working pressure by rule - Thickness of back plate - Diameter if circular 1152 mm.

Length as per rule 1530 mm. 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 { front S.M. Steel Tensile strength 42/48 kg/mm2 Thickness 26 mm. Mean pitch of stay tubes in nests -

If comprising shell, Dia. as per rule { front - Pitch in outer vertical rows { thimble in tube 70,3 mm BACK { stay - plain -

Working pressure by rules { front - back -

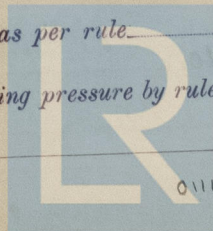
Orders to combustion chamber tops: Material - Tensile strength -

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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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. Steel External diameter 70 mm. Thickness 4 mm.

No. of threads per inch - Pitch of tubes long. 180 mm. Working pressure by rules as approved

Manhole Compensation: Size of opening in plate 300x400mm Section of compensating ring - No. of rivets and diameter -

of rivet holes - Outer row rivet pitch at ends - Depth of flange if manhole flanged 78 mm

Uptake: External diameter 548 mm Thickness of uptake plate 14 mm

Cross Tubes: No. - External diameters - Thickness of plates -

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

ANSALDO S.A.
STABILIMENTO MECCANICO

The foregoing is a correct description,

Manufacturer

Dates of Survey During progress of work in shops - From 21/2/55 to 15/9/55

while building During erection on board vessel - From 15/2/56 to 7/4/56

Is the approved plan of boiler forwarded herewith 3/11/54
(If not state date of approval.)

Total No. of visits 21

Is this Boiler a duplicate of a previous case. yes

If so, state Vessel's name and Report No.

"GIOVANNI AGNELLI", see Gen
Report No. 21459/-

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been constructed under special survey of tested materials and is in accordance with the approved plans, Secretary's letters and Rule Requirements. The materials, workmanship and welding technique are good. The boiler shell has been constructed in accordance with the requirements of the Rules for fusion welded pressure vessels of Class 1: the X-ray negatives taken on the welded joints have been examined and welding found sound. The results of the routine tests were found satisfactory. Upon completion the boiler has been examined under hydraulic pressure to 14 kg/cm² and found tight and sound in every respect at that pressure. Afterwards the boiler has been satisfactorily fitted and fixed on board, examined under steam and its safety valves adjusted to blow at 7 kg/cm².

Survey Fee

Travelling Expenses (if any)

When applied for

When received

(A. Grasselli & G. Vigo)

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRIDAY 15 JUN 1956

See Rpt. 46.

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