

REPORT ON BOILERS.

No. 23864

15 JAN 1959

Received at London Office

Date of writing Report 28th Nov. 1958 When handed in at Local Office 19 Port of GENOA

No. in Survey held at GENOA Date, First Survey 3rd March, Last Survey 13th November 1958.

Reg. Book. on the M/V 'NAVALMECCANICA' - Yard No. 624 - (Number of Visits 12=) Tons (Gross Net)

Built at Castellammare di Stabia By whom built S.A. Navalmeccanica Yard No. 624 When built 1958

Engines made at GENOA By whom made S.A. Ansaldo - Stab. Meccanico Engine No. - When made -

Boilers made at GENOA By whom made S.A. Ansaldo-Stabilimento Meccanico Boiler No. 6388 When made 1958

Owners. Port belonging to.

Oil Fired Donkey
VERTICAL/BOILER.

Made at Genoa Sampierdarena By whom made S.A. ANSALDO-Stabilimento Meccanico Boiler No. 6388 When made 1958 Where fixed -

Manufacturers of Steel SIAC - Genoa, Cornigliano.

Total Heating Surface of each Boiler 60 sq.m. Is forced draught fitted - Coal or Oil fired Oil Fired

No. and Description of Boilers ONE-THIMBLE TUBE ANSALDO CLARKSON VERTICAL DONKEY BOILER Working Pressure 7 Kg/cm²

Tested by hydraulic pressure to 14 Kg/cm² Date of test 13th November, 1958 No. of Certificate 414

Area of fire grate in each Boiler - No. and description of safety valves to each boiler TWO - ORDINARY SPRING LOADED.

Area of each set of valves per boiler { per flute 4550 mm² as fitted 5654 mm² Pressure to which they are adjusted 7 Kg/cm² Are they fitted with easing gear yes 4.1.59

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 - Largest internal dia. of boiler 2000 mm. Height 5900 mm.

Shell plates: Material S.M. Steel Tensile strength 42/48 Kg/mm² Thickness 15 mm.

Are the shell plates welded or flanged fusion welded If fusion welded, state name of welding firm S.A. Ansaldo-Stabilimento Meccanico

Have all the requirements of the Rules for Class I vessels been complied with yes Description of riveting: circ. seams { end double at bottom XXX

long. seams - Dia. of rivet holes in { circ. seams 29 mm. Pitch of rivets { 81,76 mm. Thickness of butt straps { outer - inner -

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat spherical Dished-partial Material S.M. Steel Tensile strength 42/48 Kg/mm² Thickness 19 mm.

Radius 1690 mm. Description of Furnace: Plain, spherical, or dished crown Dished crown Material S.M. Steel

Tensile strength 42/48 Kg/mm² Thickness 16 mm. External diameter { top - bottom - Length as per Rule -

Pitch of support stays circumferentially - and vertically - Are stays fitted with nuts or riveted over -

Diameter of stays over thread - Radius of ~~spherical~~ dished furnace crown 900 mm.

Thickness of Ogee Ring 22 mm. Diameter as per Rule { D. 2000 mm. d. 1194 mm.

Combustion Chamber: Material S.M. Steel Tensile strength 42/48 Kg/mm² Thickness of top plate 16 mm.

Radius if dished 900 mm. Thickness of back plate - Outside Diameter if circular 1210 mm.

Length as per Rule 2520 mm. Pitch of stays -

Are stays fitted with nuts or riveted over - Diameter of stays over thread -

Tube Plates: Material S.M. Steel Tensile strength 42/48 Kg/mm² Thickness 30 mm. Mean pitch of stay tubes in nests -

If comprising shell, dia. as per Rule { front - back - Pitch in outer vertical rows { thimble in tube plate 83,4 mm. Dia. of tube holes XXXX BACK { stay - plain -

Is each alternate tube in outer vertical rows a stay tube -

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 -

Crown Stays: Material - Tensile strength - Diameter { at body of stay - or over threads - }
 No. of threads per inch - Screw Stays: Material - Tensile strength -
 Diameter { at turned off part, or over threads - } No. of threads per inch - Are the stays drilled at the outer ends -
 Thimble Tubes: Material S.M. Steel External diameter { plain 83 mm. stay - } Thickness { 4 mm. - }
 No. of threads per inch - Pitch of tubes longitudinal 178 mm.; circumferential 152,05 mm.
 Manhole Compensation: Size of opening in crown plate 300 x 400 mm. 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 660 mm. Thickness of uptake plate 15 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.
 STABILIM
 The foregoing is a correct description,
 Costruttore
[Signature]
 Manufacturer

Dates of Survey while building { During progress of work in shops - - } from 3/3/58 to 13/11/58 Is the approved plan of boiler forwarded herewith 29/11/57.
 { During erection on board vessel - - } Total No. of visits 12=

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. M/V "CARMELA FASSIO" See Genoa Report No. 22110.-

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This 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-rays negatives taken on the welded joints have been examined and welding found sound.- The results of the routine tests were found satisfactory. Upon completion this boiler has been examined under hydraulic pressure to 14 Kg/cm² and found tight and sound in every respect at that pressure.- The boiler has now been despatched to Naples and, when same has been satisfactorily fitted on board Navalmeccanica Yard No. 624, examined under steam, its safety valves adjusted to blow at 7 Kg/cm² and an accumulation test carried out to the satisfaction of the Society's Surveyors, the boiler will be eligible for classification in the Society's Register Book.

Copy of this report has been sent to Naples for information.

Survey Fee Lit. 60,000 less 15/2 Lit. 51,000 When applied for 12/1/1959
 Travelling Expenses (if any) (see Rpt. 4.c) When received 19

[Signature]
 (W. Giunti).
 Engineer Surveyor to Lloyd's Register of Shipping.

FRIDAY - 1 JAN 1960

Date _____
 Committee's Minute see Rpt. 1.

4x Rmb
 2.12.59



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