

# REPORT ON WATER TUBE BOILERS.

No. 29569

Received at London Office

14/12/1964 When handed in at Local Office 19 Port of GENOA

Survey held at GENOA Date, First Survey 9/3/64 Last Survey 18/6/1964

on the m.s. "GIUSEPPE VERDI" Tons (Number of Visits 18) Gross 311.33

GENOA SESTRI By whom built ANSALDO S.A. CANTIERE NAVALE Yard No. 1597 When built 1964

GENOA SAMPIERDARENA By whom made ANSALDO S.A. STAB. MECCANICO Engine No. 909002 When made 1964

GENOA SAMPIERDARENA By whom made ANSALDO S.A. STAB. MECCANICO Boiler No. 500.501 When made 1964

8285 Owners BLACKSEA STATE STEAMSHIP LINES Port belonging to ODESSA USSR

WATER TUBE BOILERS MAIN, AUXILIARY, OR DONKEY Manufacturers of Steel FALCK MILANO, DALMINE MILANO

16th April, 1962 - Revised 26th February, 1964. No. and Description or Type

two ANSALDO F.W. type two drum boiler Working Pressure 12Kg/cm2 Tested by Hydraulic Pressure to 21.5Kg/cm2 Date of Test 29.5.64

of Certificate 500, 501 Can each boiler be worked separately yes Total Heating Surface of Boilers 770m2 Superheaters none

If Economisers - Is forced draught fitted yes Area of Fire Grate (coal) in each Boiler -

and type of burners (oil) in each boiler one - oil No. and description of safety valves on

h boiler one double cockburn type full bore pilot Area of each set of valves per boiler

adjusted 12Kg/cm2 Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter

donkey boiler - Smallest distance between boilers or uptakes and burners or woodwork 750mm. Height of boiler 5000mm.

width and length 4750x3750mm. Steam Drums: Number in each boiler one Inside diameter 1082mm.

thickness of plates 18/30mm. Range of tensile strength 42/48Kg/mm2 Are drum shell plates welded

flanged fusion welded If fusion welded, state name of welding firm ANSALDO S.A. STAB. MECCANICO, GENOA Have all the requirements of the Rules

Class I vessels been complied with yes Description of riveting: Circ. seams - long seams -

diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of

g. joint: Plate - Rivet - Diameter of tube holes in drum 102.6mm. Pitch of tube holes 46mm. circ.

percentage strength of shell in way of tubes as approved Steam Drum Heads or Ends: Range of tensile strength 42-48Kg/mm2

thickness of plates 18mm. Radius or how stayed 880mm. Size of manhole or handhole two 300x400mm. Water Drums: Number

each boiler one Inside diameter 760mm. Thickness of plates 28mm. Range of tensile strength 42-48Kg/mm2 Are drum shell plates

welded or flanged fusion welded If fusion welded, state name of welding firm ANSALDO S.A. STAB. MECCANICO, GENOA Have all the requirements of the Rules

Class I vessels been complied with yes Description of riveting: Circ. seams - long seams -

diameter of rivet holes in long. seams - Rivet - Diameter of tube holes in drum 102.6mm. Pitch of tube holes 46mm. circ.

percentage strength of drum shell in way of tubes as approved Water Drum Heads or Ends: Range of tensile strength 42-48 Kg/mm2

thickness of plates 15mm. Radius or how stayed 700mm. Size of manhole or handhole one 300x400mm.

headers or Sections: Number one Material seamless steel tube Thickness 24mm. Tested by hydraulic pressure to 21.5Kg/cm2

tubes: Diameter 102mm. Thickness 4.5mm. Number 4 Steam Dome or Collector: Description of

joint to shell - Inside diameter - Thickness of shell plates - Range of tensile

strength - Description of longitudinal joint - If fusion welded, state name of welding

firm - Have all the requirements for the Rules for Class I vessels been complied with - Diameter of rivet holes -

pitch of rivets - Thickness of straps - Percentage strength of long. joint - plate - rivet -

rown or End Plates: Range of tensile strength - Thickness - Radius or how stayed -

UPERHEATER, Drums or Headers: Number in each boiler - Inside diameter -

thickness - Material - Range of tensile strength - Are drum shell plates welded

9.4.6 flanged - If fusion welded, state name of welding firm - Have all the requirements of the Rules

Class I vessels been complied with - Description of riveting: Circ. seams - long seams -

diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of

g. joint: Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of

um shell in way of tubes - Drum Heads or Ends: - Thickness - Range of tensile strength -

adius or how stayed - Size of manhole or handhole - Number, diameter, and thickness of tubes -

tested by hydraulic pressure to - Date of test - Is a safety valve fitted to each section of the superheater which

can be shut off from the boiler - No. and description of safety valves - Area of each set

valves - Pressure to which they are adjusted - Is easing gear fitted -

are Gear. Has the spare gear required by the Rules been supplied -

The foregoing is a correct description, ANSALDO S.P.A. STABILIMENTO MECCANICO Manufacturer.

Dates	During progress of work in shops - -	First 9.3.64	Last 18.6.64	Is the approved plan of boiler forwarded herewith	no
Survey	"	2.9.64	last 30.11.64	Total No. of visits	12
while building	During erection on board vessel - -				

#88.3 this boiler a duplicate of a previous case yes If so, state vessel's name and report No. ANSALDO SESTRI YARD No. 1593 m.v. "LEONARDO DA VINCI" - Report No. 28667.

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc. These boilers have been constructed under special survey of tested materials and are in accordance with the approved plans. Rule requirements and Secretary's letters.

The materials, workmanship and welding techniques are good. The boiler drums have been manufactured in accordance with the requirements for Class I fusion welded pressure vessels. Full radiographic examination of the drum longitudinal and circumferential seams has been carried out with satisfactory results. The results of routine mechanical tests on the drum longitudinal weld coupon plates were also satisfactory. Upon completion the boilers have been examined under hydraulic pressure of 21.5 Kg/cm2 and found sound and tight in all respects, at that pressure. After erection on board the ship and fitting of all mountings the boilers were examined under full working conditions & the safety valves adjusted to 12Kg/cm2. (B.S. THOMPSON) P.B. Thompson

Survey Fee £ 315.00 £ 39.260 Travelling Expenses (if any) £ 1.150 When received 19 REVENUE TAX (See our a/c. no. 7382 dd. 4/2/1965)

Date FRIDAY 19 MAR 1965

Committee's Minute Sec. Rep. - 1.

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