

REPORT ON BOILERS.

No. 9441

Received at London Office

14 FEB 1927

Survey Report 3/2/27 192 When handed in at Local Office 3/2/27 192 Port of GENOA

Survey held at GENOA Date, First Survey 3/12/25 Last Survey 12/1/27 192

(Number of Visits 29) Gross 8189 Tons Net 5054

on the Twin Screw Motor vessel "TERESA ODERO"

Built at Genoa, Foce By whom built Cant. Navali ODERO Yard No. 242 When built 1927

made at Cornigliano, Genoa By whom made Cantieri Officine Savoia Engine No. When made 1927

made at Genoa, Foce By whom made Cantieri Navali ODERO Boiler No. When made 1927

Horse Power 563 Owners Cantieri Navali ODERO Port belonging to Genoa

DUAL SURVEY
L. R. & R. I.

TUBULAR BOILERS ~~MAIN~~ ~~AUXILIARY~~ ~~FOR~~ DONKEY.

Manufacturers of Steel Terni (Letter for Record S)

Heating Surface of Boilers 250 m.sq. Is forced draught fitted No Coal or Oil fired Oil

Description of Boilers 2 Single ended multitubular Working Pressure 8 Kg.cm2

hydraulic pressure to 15.5 kg. Date of test 9-6-26 No. of Certificate 181 Can each boiler be worked separately Yes

Firegrate in each Boiler Oil fired No. and Description of safety valves to each boiler 2 spring loaded

each set of valves per boiler per Rule 10.200 m/m2 Pressure to which they are adjusted 8 kg. Are they fitted with easing gear Yes

as fitted 12,723.5 m/m2

donkey boilers, state whether steam from main boilers can enter the donkey boiler

Distance between boilers or uptakes and bunkers or woodwork No wood work anywhere near Is oil fuel carried in the double bottom under boilers Boilers on deck above

Distance between shell of boiler and tank top plating About 10 feet Is the bottom of the boiler insulated No

external diam. of boilers 3130 Length 3,020 Shell plates: Material S.M. Steel Tensile strength 28-32 tons

17 m/m Are the shell plates welded or flanged No Description of riveting: Circ. seams Double

D.R. Butt straps Diameter of rivet holes in circ. seams 22 m/m Pitch of rivets 116

of strength of circ. end seams plate 72.5 rivets 46 Percentage of strength of circ. intermediate seams plate 81 rivets 88.6

of strength of longitudinal joint combined 93.8 Working pressure of shell by Rules 9.1 kg.

of butt straps outer 17 m/m inner 17 " No. and Description of Furnaces in each Boiler 2 - Plain

S.M. Steel Tensile strength 26-30 tons Smallest outside diameter 954

plain part top 2,200 Thickness of plates crown 17 m/m Description of longitudinal joint Riveted lap

bottom 17 " Angle 90X90XI7 Working pressure of furnace by Rules 10 kg.

of stiffening rings on furnace or c.c. bottom

in steam space: Material S.M. Steel Tensile strength 28/32 Thickness 20 m/m Pitch of stays 450 m/m

stays secured Double nuts and washers Working pressure by Rules 14.7 kg.

Material front Steel Tensile strength 28/32 Thickness 18

back Steel Working pressure by Rules 20

of stay tubes in nests 206 Pitch across wide water spaces 350 Working pressure front 20 back 22.2

combustion chamber tops: Material S.M. Steel Tensile strength 28/22 tons Depth and thickness of girder

180 m/m x 17 m/m Length as per Rule 611 m/m Distance apart 225 m/m No. and pitch of stays

2-180 m/m Working pressure by Rules 15.5 Combustion chamber plates: Material S.M. Steel

length 26/30 tons Thickness: Sides 14 m/m Back 14 m/m Top 14 m/m Bottom 17 m/m

stays to ditto: Sides 180 m/m Back 180 m/m Top 180 by 225 Are stays fitted with nuts or riveted over Riveted over

pressure by Rules Front plate at bottom: Material S.M. Steel Tensile strength 28/32 Tons

18 m/m Lower back plate: Material S.M. Steel Tensile strength 28/32 tons Thickness 17 m/m

stays at wide water space 350 x 180 Are stays fitted with nuts or riveted over Nuts

pressure 8 Kg. Main stays: Material S.M. Steel Tensile strength 28/32 tons

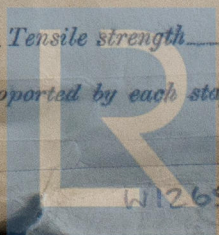
body of stay, 60 m/m No. of threads per inch 10 Area supported by each stay Circle 540 dia.

over threads 70 m/m Screw stays: Material S.M. Steel Tensile strength 26/30

pressure by Rules 8.7 kg. No. of threads per inch 10 Area supported by each stay 180 x 180

turned off part, 29 m/m

over threads 32 m/m



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"TERESA ODERO" Genoa Boiler F.E. Report

Working pressure by Rules 9.65 Are the stays drilled at the outer ends No Margin stays: Diameter At turned off part, 3
 No. of threads per inch 10 Area supported by each stay 180 X 274 Working pressure by Rules 9.32
 Tubes: Material S.M. Steel External diameter Plain 76 Thickness 4 No. of threads per inch 7
 Pitch of tubes 103 180 X 180 Working pressure by Rules 17.5 Manhole compensation: 8
 shell plate 300 X 400 Section of compensating ring 1100 X 17 No. of rivets and diameter of rivet holes As app
 Outer row rivet pitch at ends 85.7 Depth of flange if manhole flanged ✓ Steam Dome: Material S.M.
 Tensile strength 28/32 Thickness of shell 14 Description of longitudinal joint Double riveted lap
 Diameter of rivet holes 22 m/m Pitch of rivets 72 m/m Percentage of strength of joint Plate 69
 Internal diameter 1,100 Working pressure by Rules 15 kg. Thickness of crown 17 m/m Rivets 66
 stays None Inner radius of crown 1,100 Working pressure by Rules 8.96 kg.
 How connected to shell Double riveted flanged of doubling plate under dome As above for manhole Diameter of rivet
 of rivets in outer row in dome connection to shell 22 X 85 Shell 80 compensation ring.

Type of Superheater

Number of elements _____ Material of tubes _____ Internal diameter and thickness of tubes _____
 Material of headers _____ Tensile strength _____ Thickness _____ Can the superheater _____
 the boiler be worked separately _____ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler _____
 Area of each safety valve _____ Are the safety valves fitted with easing gear _____
 Rules _____ Pressure to which the safety valves are adjusted _____
 tubes _____, castings _____ and after assembly in place _____
 to free the superheater from water where necessary _____
 Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with _____

The foregoing is a correct description

Errolano Giusti

Dates of Survey 1925- Dec.3,29 1926- Jan.15,29 Feb.18 Mar. 5,12,17,23 April 1,
 while building May 5,6,19,26 Jun.9,12,25 Are the approved plans of boiler and superheater forwarded here ✓
 (If not state date of approval.)
 During erection on board vessel 1926- Aug.20,24, Sep.1,22, Total No. of visits 29
Oct.6 Nov.11,29, Dec.17,24 1927 Jan.3,10,12
= 12 visits on board.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These Boilers have been built of tested material in accordance with the approval of the Secretary's letters and the requirements of the Rules. Materials and workmanship are satisfactory.

The Boilers have been fitted on a flat at the forward end of the machinery in a satisfactory manner.

For identification the boilers have been marked as under:-

No 180 No 181

LLOYD'S TEST

15.5 kg. / cm.²

W. P. 8 kg./cm.²

I.A. 9-6-26

T.R.M. 12-6-26

In our opinion the vessel is eligible to have the notation 2 DB (with pressure)

Survey Fee ... Lit. 2000.-

Travelling Expenses (if any) £ 300.-

When applied for, 4/2/27 192

When received, 30/4/27 192

J.R. Morrison

Engineer Surveyor to Lloyd's Register

Committee's Minute

TUES. 22 FEB 1927

Assigned

See 28 rpt. attached



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