

REPORT ON BOILERS.

No. 19737

29 JAN 1954

Received at London Office

Date of writing Report 11-1-1954 When handed in at Local Office 11-1-1954 Port of Genoa

No. in Reg. Book on the M/V "AGOSTINO FASSIO" Date, First Survey 24-12-1953 Last Survey 4-1-1954 (Number of Visits two) Gross Tons Net

Built at TARANTO By whom built CANT. NAVALI "FRANCO TOSI" Yard No. 143 When built ✓ Engine made at TURIN By whom made SOC. ANON. "FIAT" S.S.M. Engine No. 3735 When made 1953 Boilers made at LESNANO By whom made FRANCO TOSI Boiler No. 6382 When made 1954 Owners Port belonging to ✓

VERTICAL DONKEY BOILER.

Made at LESNANO By whom made FRANCO TOSI Boiler No. 6382 When made 1954 Where fixed CANT. NAV. TARANTO

Manufacturers of Steel FALK - "ACCIAIERIE e FERRIERE LOMBARDE" MILANO

Total Heating Surface of Boiler 162 sq. mts. Is forced draught fitted ✓ Coal or Oil fired EXHAUST GAS

No. and Description of Boilers ONE: EXHAUST GAS CYLINDRICAL VERTICAL J. BOILER Working pressure 8 Kg. cm.²

Tested by hydraulic pressure to 15.5 Kg/cm² Date of test 4th January 1954 No. of Certificate 309.

Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler 2 x 60 mm φ: - ORDINARY SPRING LOADED S.V.

Area of each set of valves per boiler { per rule as approved 5655 mm² as fitted pressure to which they are adjusted ✓ 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

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 2060 mm. Height 2600 mm.

Shell plates: Material M.S. STEEL Tensile strength 42 = 50 Kg/mm² Thickness 19 mm.

Are the shell plates welded or flanged FUSION WELDED ✓ Description of riveting: circ. seams { end... ✓ inter... ✓ long. seams ✓

Dia. of rivet holes in { circ. seams ✓ Pitch of rivets ✓ Percentage of strength of circ. seams { plate ✓ rivets ✓ of Longitudinal joint { plate ✓ rivets ✓ 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 ✓ Material ✓

Tensile strength ✓ Thickness ✓ Radius ✓ Working pressure by rules ✓

Description of Furnace: Plain, spherical, or dished crown ✓ Material ✓ Tensile strength ✓

Thickness ✓ 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 spherical or dished furnace crown ✓ Working pressure by rule ✓

Thickness of Ogee Ring ✓ Diameter as per rule { D ✓ a ✓ Working pressure by rule ✓

Combustion Chamber: Material ✓ Tensile strength ✓ Thickness of top plate ✓

Radius if dished ✓ Working pressure by rule ✓ Thickness of back plate ✓ Diameter if circular ✓

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

Diameter of stays over thread ✓ Working pressure of back plate by rules ✓

Tube Plates: Material { front MS STEEL back MS STEEL Tensile strength { 42 = 50 Kg/mm² Thickness { 25 mm Mean pitch of stay tubes in nests 342 mm.

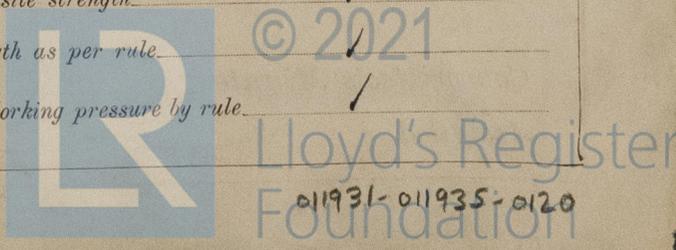
If comprising shell, Dia. as per rule { front ✓ back ✓ Pitch in outer vertical rows { ✓ Dia. of tube holes { Top FRONT { stay 64 mm. plain 65 mm. Bottom BACK { stay 64 mm. plain 64 mm.

Is each alternate tube in outer vertical rows a stay tube ✓ Working pressure by rules { front as approved. back as approved.

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 ✓ Working pressure by rule ✓



162 = 21 x 279
805

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 M.S. STEEL External diameter (plain 63.5 mm., stay 63.5 mm.) Thickness (4.06 mm., 9.5 mm.)

No. of threads per inch WELDED AS APPROVED Pitch of tubes 15.5 mm. Working pressure by rules as approved.

Manhole Compensation: Size of opening in shell plate 2 = 400 x 300 mm. Section of compensating ring 100 x 19 No. of rivets and diameter (6 = 180 x 140 mm., 438 x 338, 75 x 19)

of rivet holes WELDED Outer row rivet pitch at ends Depth of flange if manhole flanged (100 mm.)

Uptake: External diameter Thickness of uptake plate

Cross Tubes: No. External diameters Thickness of plates

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

The foregoing is a correct description,
FRANCO TOSI
 Società per Azioni
 Manufacturer.

Dates of Survey During progress of work in shops - 24-12-1953 to 4-1-1954 Is the approved plan of boiler forwarded herewith 16-10-53 (If not state date of approval.) 5.8.53 & 13.3.54

while building During erection on board vessel - Total No. of visits two

Is this Boiler a duplicate of a previous case NO If so, state Vessel's name and Report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) this donkey boiler has been constructed under special survey of tested materials and in accordance with the approved Plans, Secretary's letters and Rules Requirements. = The materials & workmanship are good = The outer shell of this boiler has been constructed by Messrs. Acciaierie e Tubificio di Brescia, and in accordance with the Requirements of the Rules for Fusion Welded Pressure Vessels of Class 1st. = (Copy of certificate is herewith attached.) = Upon completion this d. boiler has been examined under hydraulic pressure to 15.5 kg/cm² and found sound and tight in every respect at that pressure. = This donkey boiler has now been despatched to Taranto to be fitted aboard the YARD No 143 of Cantieri Navali di Taranto =

NB = Copy of this Report has been sent to Naples lawyers for their information. =

Survey Fee £ 47.58.750 = £ 4.9.938 = When applied for, 23-1-1954

Travelling Expenses (if any) £ 22.802 = When received, 19

CAR FUND £ 1.499 =

REV. TAX. £ 2.228 =

FRIDAY 2 APR 1954

Committee's Minute
 Assigned See Rpt. 46.

