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Rpt. 5c.

REPORT ON WATER TUBE BOILERS. No. 54

Received at London Office 28. 1. 1964

Date of writing Report 3.7.1964 19 When handed in at Local Office 26 FEB 1965 19 Port of Milan

No. in Reg. Book. Survey held at ..... Date, First Survey ..... Last Survey 19

(Number of Visits .....) Gross ..... Tons Net .....

on the .....

Built at Genova-Sestri By whom built Ansaldo S.p.A. Yard No. 1597 When built .....

Engines made at ..... By whom made ..... Engine No. ..... When made .....

Boilers made at Palazzolo S/O (Brescia) By whom made F. CASINGHINI, Milan Boiler No. CDM. 62135 When made 1964

IS for Register Book ..... Owners ..... Port belonging to .....

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—*Manufacturers of Steel* Tubes & Headers: Dalmine S.p.A., Milan

Date of Approval of plan 18.1.63 - drwg.No. CDM.62131-36/1 **No. and Description of Type of Boilers** One: Waste Heat Boiler **Working Pressure** 12 Kg/cm2 *Tested by Hydraulic Pressure to* see remarks *Date of Test* .....

No. of Certificate ..... *Can each boiler be worked separately* ..... **Total Heating Surface of Boilers** 2676 m2 **Superheaters** –

Half Economisers – *Is forced draught fitted* – **Area of Fire Grate (coal) in each Boiler** –

No. and type of burners (oil) in each boiler exhaust gas (superheater bank 1 - N.D.40 mm. (economiser bank 1 - N.D.25 mm. (steaming bank 1 - N.D.3"(double) *No. and description of safety valves on each boiler* ..... *Area of each set of valves per boiler* per rule (1256 mm2 as fitted (490 mm2 (9120 mm2 *Pressure to which they are adjusted* 12.6Kg/cm2 *Are they fitted with easing gear* yes respectively *In case of donkey boilers state whether steam from main boilers can enter the donkey boiler* – *Smallest distance between boilers or uptakes and bunkers or woodwork* – *Height of boiler* 6750 mm.

Width and length 3533, 4190mm. **Steam Drums:**—*Number in each boiler* – *Inside diameter* –

Thickness of plates – *Range of tensile strength* – *Are drum shell plates welded or flanged* – *If fusion welded, state name of welding firm* – *Have all the requirements of the Rules for 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 long. joint:—Plate* – *Rivet* – *Diameter of tube holes in drum* – *Pitch of tube holes* –

Percentage strength of shell in way of tubes – **Steam Drum Heads or Ends:**—*Range of tensile strength* –

Thickness of plates – *Radius or how stayed* – *Size of manhole or handhole* – **Water Drums:**—*Number in each boiler* – *Inside diameter* – *Thickness of plates* – *Range of tensile strength* – *Are drum shell plates welded or flanged* – *If fusion welded, state name of welding firm* – *Have all the requirements of the Rules for 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 long. joint:—Plate – *Rivet* – *Diameter of tube holes in drum* – *Pitch of tube holes* –

Percentage strength of drum shell in way of tubes – **Water Drum Heads or Ends:**—*Range of tensile strength* –

Thickness of plates – *Radius or how stayed* – *Size of manhole or handhole* –

Headers or Sections:—*Number* 6 *Material* Aq.45 UNI.663 *Thickness* 8 & 5.5 mm. *Tested by hydraulic pressure to* see remarks

Tubes:—*Diameter* 38 x 32 mm. *Thickness* 3 mm. *Number* 624 **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* –

Crown or End Plates:—*Range of tensile strength* – *Thickness* – *Radius or how stayed* –

SUPERHEATER. Drums or Headers:—*Number in each boiler* – *Inside diameter* –

Thickness – *Material* – *Range of tensile strength* – *Are drum shell plates welded or flanged* – *If fusion welded, state name of welding firm* – *Have all the requirements of the Rules for 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 long. joint:—Plate* – *Rivet* – *Diameter of tube holes in drum* – *Pitch of tube holes* – *Percentage strength of drum shell in way of tubes* – **Drum Heads or Ends:**— – *Thickness* – *Range of tensile strength* –

Radius 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 of valves* – *Pressure to which they are adjusted* – *Is easing gear fitted* –

Spare Gear. *Has the spare gear required by the Rules been supplied*

.35 UNI.663 mild steel:UTS min.35 Kg/mm2, YP 21 Kg/mm2, Elong.23%
Aq.45 UNI.663 " " : " " 45 " " 24 " " 19%

F. CASINGHINI
Via Lazza, 9 - MILANO

The foregoing is a correct description,
F. CASINGHINI ECONOMIZZATORI GREEN.
Manufacturer.

Dates of Survey while building — *During progress of work in shops* 3.5.63 - 2.4.64 - 4/6/1964. *During erection on board vessel* 23.6.64 30.11.64 (six) *Is the approved plan of boiler forwarded herewith* no. *Total No. of visits* 6

Is this boiler a duplicate of a previous case yes *If so, state vessel's name and report No.* No.44 Yard No.1596 - Ansaldo Sestri.

GENERAL REMARKS (*State quality of workmanship, opinions as to class, &c.* The above boiler was examined at the Works in the conditions described in our certificate No.M/2800 attached, and despatched to the Shipyard for completion and hydraulic testing, to the satisfaction of the Society's Surveyors in Genoa.

Survey Fee ... ... Lit. 211,400.= When applied for 20/7/64 19

Travelling Expenses (if any) Lit. 10,500.= When received 19

Revenue Tax.....Lit. 7,323.=

FRIDAY 19 MAR 1965

Date .....

Committee's Minute Sc Rpt. 1.

(D. Lamuraglia)
Engineer Surveyor to Lloyd's Register of Shipping.

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