

## REPORT ON WATER TUBE BOILERS.

No. 20175

3 - SEP 1954

Date of writing Report 24-7-54 19

When handed in at Local Office 26-7-54 19

Received at London Office

Port of GENOA

No. in Survey held at GENOA

Reg. Book.

Date, First Survey 10-12-53

Last Survey 24-7-54 19

(Number of Visits 40)

Gross 77519

Net 9801

Built at GENOA - SESTO

By whom built S.A. ANSALDO - CANTIERI NAVALI

Yard No. 1486

When built 1954

Engines made at GENOA - SAMPIERDARENA

By whom made S.A. ANSALDO - STABILIM. MECCANICO

Engine No. 1449

When made 1954

Boilers made at ditto

By whom made ditto

Boiler No. 5899

When made 1954

Nominal Horse Power.

Owners "GARIBOLDI" Soc. Coop. di Nav.

Port belonging to GENOA

## WATER TUBE BOILERS MAIN, AUXILIARY, OR DONKEY.

Date of Approval of plan NEW YORK 1-July-1952

of Boilers THREE - TWO DRUMS FOSTER WHEELER

Working Pressure 47.5 Kg/cm<sup>2</sup>

No. and Description of Type

No. of Certificate 312-313-314

Can each boiler be worked separately. YES

Tested by Hydraulic Pressure to 75 Kg/cm<sup>2</sup>

Date of Test 22-2-54

Is forced draught fitted. YES

Area of Fire Grate (coal) in each Boiler

Total Heating Surface of Boilers 31740 sq. ft.

No. and type of burners (oil) in each boiler THREE - TODD SYSTEM

each boiler TWO - HIGH LIFT IMPROVED TYPE CROSBY

Area of each set of valves per boiler

per rule as approved

are adjusted 47.5 Kg/cm<sup>2</sup>

Are they fitted with easing gear. YES

In case of donkey boilers state whether steam from main boilers can enter the donkey boiler.

Width and length 18'7" - 18'11"

Steam Drums: Number in each boiler ONE

Thickness of plates 3 7/16" tube plate, 1 3/16" wrapper

Range of tensile strength 70,000 P.S.I. minimum

or flanged FUSION WELDED

If fusion welded, state name of welding firm FORSTER WHEELER CORP.

for Class I vessels been complied with YES - SEE NEW YORK REP N° 52946

Description of riveting: Circ. seams

Diameter of rivet holes in long. seams

Pitch of rivets

long. joint: Plate

Rivet

Percentage strength of shell in way of tubes 31.3 - 54.7

Steam Drum Heads or Ends: Range of tensile strength 70,000 P.S.I. minimum

Thickness of plates 1 3/16" - 1 3/16"

Radius or how stayed ELIPSOIDAL

in each boiler ONE

Inside diameter 30 1/2"

welded or flanged FUSION WELDED

If fusion welded, state name of welding firm FORSTER WHEELER CORP.

for Class I vessels been complied with YES - SEE N.Y. REP N° 52946

Description of riveting: Circ. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Percentage strength of long. joint: Plate

Rivet

Percentage strength of drum shell in way of tubes 31.3 - 54.7

Water Drum Heads or Ends: Range of tensile strength 70,000 P.S.I. minimum

Thickness of plates 1 3/16" - 1 3/16"

Radius or how stayed ELIPSOIDAL

Headers or Sections: Number THREE

Material STEEL

Tubes: Diameter 1 1/4" - 2" - 3"

Thickness 0.109" - 0.148" - 0.203"

joint to shell

Inside diameter

strength

Thickness of shell plates

Description of longitudinal joint

Have all the requirements for the Rules for Class I vessels been complied with

Pitch of rivets

Thickness of straps

Crown or End Plates: Range of tensile strength

Thickness

SUPERHEATER, Headers: Number in each boiler FOUR (SEAMLESS)

Material CARBON STEEL

Thickness 1 1/2"

Range of tensile strength 60,000 P.S.I.

or flanged

If fusion welded, state name of welding firm

for Class I vessels been complied with

Description of riveting: Circ. seams

Diameter of rivet holes in long. seams

Pitch of rivets

long. joint: Plate

Rivet

drum shell in way of tubes 32

Drum Heads or Ends: FLAT

Radius or how stayed

Thickness 1.1"

Tested by hydraulic pressure to 75 Kg/cm<sup>2</sup>

Date of test 12-4-3-54

can be shut off from the boiler. YES

No. and description of safety valves ONE: HIGH LIFT IMPROVED TYPE CROSBY

of valves 1.76 sq. in.

Pressure to which they are adjusted 44.5 Kg/cm<sup>2</sup>

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

Is easing gear fitted. YES

The foregoing is a correct description,

Manufacturer.

Dates of Survey

During progress of work in shops -

FROM 10-12-53 TO 4-3-54

while building

During erection on board vessel -

FROM 13-3-54 TO 24-7-54

Is the approved plan of boiler forwarded herewith. NO

Total No. of visits 40

Is this boiler a duplicate of a previous case. YES

If so, state vessel's name and report No. "MINA D'AMICO" SEE GENOA REP N° 20088

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

THE FUSION WELDED STEAM &amp; WATER DRUMS OF THESE BOILERS TOGETHER WITH SUPERHEATER &amp; ECONOMISER HEADERS WERE MADE AND TESTED UNDER THE SURVEY OF THE U.S.A. SURVEYORS (SEE N.Y. REP N° 52946)

THE BOILERS HAVE BEEN ASSEMBLED AND TESTED TO RULE REQUIREMENTS. THE WORKMANSHIP AND MATERIALS ARE GOOD. THE BOILERS HAVE BEEN SATISFACTORILY INSTALLED ON BOARD, EXAMINED UNDER STEAM, THEIR SAFETY VALVES ADJUSTED AS ABOVE AND AN ACCUMULATION TEST CARRIED OUT WITH SATISFACTORY RESULTS. THESE BOILERS ARE ELIGIBLE FOR CLASSIFICATION IN THE SOCIETY'S REGISTER

EST ENTRY FEE: 64.714.150.4m 1/2 = 41.602.027

Survey Fee (CAR FUND) - 2 - 41.18.219 = When applied for 22/3/1954

Travelling Expenses (if any) - 41.72.863 = When received 19

REV. TAX - 41.20.943

Date

FRIDAY 1 OCT 1954

Committee's

Minute

See Rpt. 4.

Engineer Surveyor to Lloyd's Register of Shipping.

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