

# REPORT ON WATER TUBE BOILERS.

Received at London Office

Date of writing Report 14.11.1955 When handed in at Local Office 19.11.1955 Port of NANTES  
 No. in Survey held at SAINT NAZAIRE Date, First Survey 22.2.54 Last Survey 26.10.1955  
 Reg. Book. SUPP.  
33471 on the SINGLE SC. SS "/SOCARDIA" (Number of Visits 21) Gross 2,270.8  
 Tons Net 1,041.7  
 Built at SAINT NAZAIRE By whom built CH. BAT. DE SAINT NAZAIRE (PENHOET) Yard No. 915 When built 1955  
 Engines made at SAINT NAZAIRE By whom made CH. BAT. DE SAINT NAZAIRE (PENHOET) Engine No. 915 When made 1955  
 Boilers made at SAINT NAZAIRE By whom made CH. BAT. DE SAINT NAZAIRE (PENHOET) Boiler No. 1856 & 1857 When made 1955  
 HS for Register Book 22.800 sq/ft Owners SOCIETE MARITIME SHELL Port belonging to LE HAVRE

## WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel PLATES:— LE CREUSOT TUBES:— ESCAUT & MEUSE

Date of Approval of plan 13.5.53, 15.4.10.6, 18.9.8.5-11.53 No. and Description or Type

of Boilers TWO WATER TUBE FOSTER WHEELER TYPE Working Pressure 50 Kp. Tested by Hydraulic Pressure to 79 Kp. Date of Test 12.2.55

No. of Certificate 1856 & 1857 Can each boiler be worked separately YES Total Heating Surface of Boilers 6385 sq. ft. Superheaters 1370 sq. ft.

Half Economisers 3645 sq. ft. Is forced draught fitted YES Area of Fire Grate (coal) in each Boiler ✓

No. and type of burners (oil) in each boiler 4- PENHOET TYPE No. and description of safety valves on

each boiler 2- 'CROSBY' FULL BORE TYPE (ON DRUM) Area of each set of valves per boiler { per rule. Pressure to which they

are adjusted 47.5 Kp. Are they fitted with easing gear YES 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 10.200

Width and length 3.495 x 6.000 Steam Drums:—Number in each boiler ONE Inside diameter MEAN 1300

Thickness of plates 40 & 8.80 (TUBE PLATE) Range of tensile strength 44/50 Are drum shell plates welded

or flanged WELDED If fusion welded, state name of welding firm CH. BAT. DE SAINT NAZAIRE (PENHOET) Have all the requirements of the Rules

for 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 109 - 89.75 Percentage strength of

long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum 51.25 - 35.25 Pitch of tube holes AS PLAN

Percentage strength of shell in way of tubes 40.2 (MIN) Steam Drum Heads or Ends:—Range of tensile strength 44/50

Thickness of plates 60 & 65 (MANHOLE) Radius or how stayed ELLIPTICAL 735 x 650 Size of manhole or handhole 400 x 300 Water Drums:—Number

in each boiler ONE Inside diameter 760 Thickness of plates 50 Range of tensile strength 44/50 Are drum shell plates

welded or flanged WELDED If fusion welded, state name of welding firm CH. BAT. DE SAINT NAZAIRE (PENHOET) Have all the requirements of the Rules

for 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 109 - 89.75 Percentage strength of

long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum 51.25 - 35.25 Pitch of tube holes AS PLAN

Percentage strength of drum shell in way of tubes 40.2 (MIN) Water Drum Heads or Ends:—Range of tensile strength 44/50

Thickness of plates 40 & 45 (MANHOLE) Radius or how stayed ELLIPTICAL 765 x 404 Size of manhole or handhole 400 x 300

WATER WALL Headers or Sections:—Number 3 Material OH Thickness 26 Tested by hydraulic pressure to 79 Kp.

Tubes:—Diameter 108 - 89 - 51 - 35 Thickness 10 - 10 - 5 - 3 Number 6 - 2 - 207 - 979 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 TWO Inside diameter 228

Thickness 32 Material CR No. Range of tensile strength 44/50 Are drum shell plates welded

or flanged SOLID DRAWN 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 30.25 Pitch of tube holes 47.5 Percentage strength of

drum shell in way of tubes 36.4 Drum Heads or Ends:— ENDS Thickness 45 Range of tensile strength 44/50

Radius or how stayed FLAT Size of manhole or handhole 51.5 Number, diameter, and thickness of tubes 215 - 30 - 3

Tested by hydraulic pressure to 84 Kp. Date of test 12.2.55, 25.2.55 Is a safety valve fitted to each section of the superheater which

can be shut off from the boiler COMMON No. and description of safety valves 1- 'CROSBY' FULL BORE TYPE Area of each set

of valves 1 x 1.8385 sq. ins Pressure to which they are 5.43.2 Is easing gear fitted YES

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



The foregoing is a correct description, [Signature] Manufacturer.

Dates of Survey } During progress of work in shops 22.2.54, 6.9, 20.10, 17.11, 7.12, 14.12, 24.12, 1.1.55, 2.1.55, 11.1.55, 12.2, 25.2, 1.4  
 while building } During erection on board vessel 4.7.55, 23.9, 30.9, 11.10, 17.10, 18.10, 26.10.55 Total No. of visits 21

Is this boiler a duplicate of a previous case YES If so, state vessel's name and report No. ISIDORA NTS RPT. N° 500

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been constructed under special survey accordance with approved plans, rule requirements & Secretary's letter. The quality of materials & workmanship is good. The boilers have been satisfactorily installed on board & examined under full working conditions. The class are in my opinion eligible to be classed as part of the machinery with the notation + LMC. 10.55

Survey Fee ... £262.760 When applied for 19  
 Travelling Expenses (if any) £ 11.250 When received 19  
 d. for Class I Press. Vessels. 40.000

Date FRIDAY 9-DEC 1955

Committee's Minute See Rpt. 4.

