

REPORT ON WATER TUBE BOILERS.

No. 515.

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 29708

Built at SAINT NAZAIRE By whom built CH. AT. DE SAINT NAZAIRE (PENHOET) Yard No. Q15 When built 1955

Engines made at SAINT NAZAIRE By whom made CH. AT. DE SAINT NAZAIRE (PENHOET) Engine No. Q15 When made 1955

Boilers made at SAINT NAZAIRE By whom made CH. AT. 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, 15.4.10.6.18.9.85.11.53. 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 25.2.55

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 YES

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 as fitted 2 x 1.2868 sq. in. 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 YES Smallest distance between boilers or uptakes and bunkers or woodwork YES 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. AT. DE SAINT NAZAIRE (PENHOET) Have all the requirements of the Rules for Class I vessels been complied with YES Description of riveting:—Circ. seams YES long. seams YES

Diameter of rivet holes in long. seams YES Pitch of rivets YES Thickness of straps 109—89.75 Percentage strength of long. joint:—Plate YES Rivet YES 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 765 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. AT. DE SAINT NAZAIRE (PENHOET) Have all the requirements of the Rules for Class I vessels been complied with YES Description of riveting:—Circ. seams YES long. seams YES

Diameter of rivet holes in long. seams YES Pitch of rivets YES Thickness of straps 109—89.75 Percentage strength of long. joint:—Plate YES Rivet YES 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 YES Thickness of shell plates YES Range of tensile strength YES Description of longitudinal joint YES If fusion welded, state name of welding firm YES Have all the requirements for the Rules for Class I vessels been complied with YES Diameter of rivet holes YES

Pitch of rivets YES Thickness of straps YES Percentage strength of long. joint YES plate YES rivet YES

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

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 YES Have all the requirements of the Rules for Class I vessels been complied with YES Description of riveting:—Circ. seams YES long. seams YES

Diameter of rivet holes in long. seams YES Pitch of rivets YES Thickness of straps YES Percentage strength of long. joint:—Plate YES Rivet YES 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. in. Pressure to which they are adjusted 5.43.2 Is easing gear fitted YES

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



The foregoing is a correct description,

Ingénieur Technique,

Manufacture.

Dates of Survey During progress of work in shops 22.2.54, 6.9, 20.10, 17.11, 7.12, 14.12, 24.1.55, 4.1.55, 20.1, 31.1, 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. No 500

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) 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 1 Press. Vessels. 40.000

Date FRIDAY 9-DEC 1955

Committee's Minute

See Rpt. 4.

Engineer Surveyor to Lloyd's Register of Shipping.

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