

REPORT ON WATER TUBE BOILERS.

No. E.E. 35

Received at London Office

Date of writing Report 28.1.1961 When handed in at Local Office 19 Port of ROUEN

No. in Survey held at DUNKIRK Date, First Survey 18.2.59 Last Survey 6.11.1960

Reg. Book. 062 on the Single Screw Steamer Tanker "J. PAUL GETTY" (Number of Visits 22) Gross 40906 Tons

Built at DUNKIRK By whom built At. & Ch. de France Yard No. 228 When built 1960.11

Engines made at SAINT-NAZAIRE By whom made Ch. de l'atlantique Engine No. T.18 When made 1959.9

Boilers made at DUNKIRK By whom made At. & Ch. de France Boiler Nos. 9&10 When made 1960.11

IS for Register Book 27046 sq.ft. Owners Hemisphere Transportation Corp. Port belonging to MONROVIA

WATER TUBE BOILERS MAIN, AUXILIARY, OR DONKEY Manufacturers of Steel Soc. des Mines Ac. de Dilling & Lorraine Escaut

Date of Approval of plan 12.9.57 15.8.58 31.12.58 Working Pressure 40.21 Tested by Hydraulic Pressure to 77.31 kg/cm² Date of Test 24.9.59

No. of Certificate 2 "FOSTER WHEELER" Total Heating Surface of Boilers 5130 sq. ft. Superheaters 8116 sq. ft.

Half Economisers 13800 sq. ft. Is forced draught fitted YES Area of Fire Grate (coal) in each Boiler 5 No. and description of safety valves on

No. and type of burners (oil) in each boiler 5 Todd Express Area of each set of valves per boiler per rule Pressure to which they

each boiler 2-Crosby full bore type "K" orifices 50.3kg/cm² 700lbs sq.ins. as fitted 1.8385" throat dia.

Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter

the donkey boiler Small distance between boilers or uptakes and bunkers or woodwork Height of boiler 6000 m/m

Width and length 4500 x 3300 Steam Drums:—Number in each boiler One Inside diameter 633.5 m/m

Thickness of plates 76 m/m Range of tensile strength Nts. Cert. No 781 76% & 37% Are drum shell plates welded

or flanged Welded If fusion welded, state name of welding firm Ch. de l'Atlantique St. Nazaire Have all the requirements of the Rules

for Class I vessels been complied with Nts. Cert. 782 Description of riveting:—Circ. seams long seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps 5 (83.3) (128.3) Percentage strength of

long. joint:—Plate Rivet Diameter of tube holes in drum 51.5 (83.3) Pitch of tube holes 100 & 114

Percentage strength of shell in way of tubes 49% Steam Drum Heads or Ends:—Range of tensile strength Nts. Cert. 782

Thickness of plates 40% & 56% Radius or how stayed 1088 m/m Size of manhole or handhole Nts. Cert. 782 Water Drums:—Number

in each boiler One Inside diameter 766 m/m Thickness of plates 45 m/m Range of tensile strength Nts. Cert. 781 Are drum shell plates

welded or flanged Welded If fusion welded, state name of welding firm Ch. de l'Atlantique St. Nazaire Have all the requirements of the Rules

for Class I vessels been complied with Nts. Cert. No 781 Description of riveting:—Circ. seams long seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps (51.5) (83.3) (128.3) Pitch of tube holes 100 & 114

Percentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum (51.5) (83.3) Pitch of tube holes 100 & 114

Percentage strength of drum shell in way of tubes 49% Water Drum Heads or Ends:—Range of tensile strength Nts. Cert. No 781

Thickness of plates 39% & 24% Radius or how stayed 670 m/m Size of manhole or handhole (No. Cert. 781)

Water wall 39 m/m Solid drawn 42/50kg m/m Thickness 26 m/m Tested by hydraulic pressure to 77.31 kg/cm²

headers or sections:—Number 3 205 x 205 Material M. steel Thickness 26 m/m Tested by hydraulic pressure to 77.31 kg/cm²

tubes:—Diameter 51 m/m 82.5 m/m Thickness 4 m/m 10 m/m 10 m/m Number 384 8 9 downcomers 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 4 Inside diameter 167 m/m

Thickness 26 m/m Material chromasco & M. steel Range of tensile strength 42/50kg m/m 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 38.5 m/m Pitch of tube holes 82.5 m/m Percentage strength of

drum shell in way of tubes 533 Drum Heads or Ends:—Header Thickness 37 m/m Range of tensile strength 42/50

Radius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes 612 = 38 x 3.5

Tested by hydraulic pressure to 26.4 kg/cm² Date of test 1.10.59 9.10.59 Is a safety valve fitted to each section of the superheater which

can be shut off from the boiler YES No. and description of safety valves 1-Crosby full bore type "K" orifices Area of each set

of valves 2.8526" throat dia Pressure to which they are adjusted 43.8 kg/cm² outlet temp. Is easing gear fitted YES

Spare Gear. Has the spare gear required by the Rules been supplied YES The foregoing is a correct description, X

Manufacturer Manufacturer.

Secretary's letters. Is the approved plan of boiler forwarded herewith

Dates During progress of work in shops 1959 18/2, 27/4, 29/4, 5/5, 28/5, 3/7 1960 15/7, 21/7, 24/9, 28/9, 1/10, 9/10, 19/10, 16/11, 1960 4/4.

while During erection on board vessel 1960 10/2, 15/4, 30/8, 16/9, 23/9, 24/9, 6/11 Total No. of visits 22

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. The boilers have been constructed under Special

Survey in accordance with approved plans, Secretary's letters and Rule requirements.

The materials & workmanship are good. The boilers have been securely fitted on board examined under

steam and safety valves adjusted in accordance with Rule Requirements. For recommendation please see

Machinery report.

Survey Fee ... N.F. 4.665.- When applied for 3.2.1961
Travelling Expenses (if any) £ : : When received 19

W. Ronald Ch. Bolender
Engineer Surveyor to Lloyd's Register of Shipping. & Self
for W. Ronald Ch. Bolender & Self.

Date See Rpt. 1.
Committee's Minute

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Lloyd's Register
Foundation