

REPORT ON WATER TUBE BOILERS.

No. 6673

JAN 23 1939

Received at London Office

Date of writing Report Dec 13th 1938 When handed in at Local Office Jan 4th 1939 Port of Baltimore, Md. U.S.A.

No. in Survey held at Spanan Point, Maryland Date, First Survey July 5th 1938 Last Survey Dec 13th 1938

Reg. Bk. 87531 on the "CONNECTICUT" Steel Tanker Steam Turbine Oil Tanker Tons { Gross 8684 Net 5105 }

Master Richard J. Smith Built at Spanan Pt. Md. By whom built Beth Steel Co When built 1938

Engines made at Guiney, Mass. By whom made Beth Steel Co When made 1938

Boilers made at Carter, N.Y. By whom made Foster Wheeler Corp. When made 1938

Registered Horse Power 1145 (nominal) Owners The Texas Co. Port belonging to Wilmington, Del.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Beth Steel Co.

(Letter for Record December 12th 1937) Date of Approval of plan December 12th 1937 Number and Description of Type Two Water Tube "D" Type

of Boilers Two Water Tube "D" Type Working Pressure 450 lb Tested by Hydraulic Pressure to 675 lb Date of Test 22-9-38

No. of Certificate 38-1 Can each boiler be worked separately Yes Total Heating Surface of Boilers 9826 sq ft

Is forced draught fitted Yes Area of fire grate (coal) in each Boiler 11.5 sq ft Total grate area of boilers in vessel including Main and Auxiliary 23 sq ft

No. and type of burners (oil) in each boiler 4 Wood "H" Burners No. and description of safety valves on each boiler Two Spring Loaded - Automatic Area of each valve 1.8385 Pressure to which they are adjusted 450 lb

Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork 3'-1" min Height of Boiler 20'-3" Width and Length 16'-11" x 10'-9"

Steam Drums:—Number in each boiler One Inside diameter 42" i.d. Material of plates SA Steel Thickness 1 1/2"

Range of Tensile Strength 60,000 lb Are drum shell plates welded or flanged Fusion welded Description of riveting:—

Cir. seams Fusion welded long. seams Fusion welded Diameter of rivet holes in long. seams 1 1/8" Pitch of Rivets 4"

Lap of plate or width of butt straps Butt joint Thickness of straps 3/4" Percentage strength of long. joint:—Plate 90% min Rivet 90% min

Diameter of tube holes in drum 1 3/4" + 2 3/4" Pitch of tube holes 2 1/4", 2 1/4", 4 1/2" Percentage strength of shell in way of tubes 48.7% + 54.8%

If Drum has a flat side state method of staying No flat side Depth and thickness of girders at centre (if fitted) None Distance apart 4'-0" Number and pitch of stays in each 19 stays + 1 1/2" Working pressure 450 lb

by rules 450 lb Steam Drum Heads or Ends:—Material SA Steel Thickness 1 3/4" + 1 1/2" Radius or how stayed Compound

Size of Manhole or Handhole 12 x 16" Water Drums:—Number in each boiler One Inside Diameter 32 in i.d.

Material of plates SA Steel Thickness 1 1/8" Range of tensile strength 60,000 lb Are drum shell plates welded or flanged Fusion welded

Description of riveting:—Cir. seams Fusion welded long. seams Fusion welded Diameter of Rivet Holes in long. seams 1 1/8" Pitch of rivets 4" Lap of plates or width of butt straps Butt joint, W Thickness of straps 3/4"

Percentage strength of long. joint:—Plate 90% min Rivet 90% min Diameter of tube holes in drum 1 3/4" + 2 3/4" Pitch of tube holes 2 1/4", 2 1/4", 4 1/2"

Percentage strength of drum shell in way of tubes 48.7% + 54.8% Water Drum Heads or Ends:—Material SA Steel Thickness 1 3/4" + 1 1/2"

Radius or how stayed Compound Size of manhole or handhole 12 x 16" Headers or Sections:—Number None

Material SA Steel Thickness 1 1/8" Tested by Hydraulic Pressure to 675 lb Material of Stays SA Steel

Area at smallest part 109" x 134" Area supported by each stay 44-1 1/4", 142-2" Working Pressure by Rules 450 lb Tubes:—Diameter 2" + 1 1/2"

Thickness 109" + 134" Number 44-1 1/4", 142-2" Steam Dome or Collector:—Description of Joint to Shell None

Percentage strength of Joint 90% min Diameter 44-1 1/4", 142-2" Thickness of shell plates 1 1/8" Material SA Steel

Description of longitudinal joint Butt joint Diameter of Rivet Holes 1 1/8" Pitch of Rivets 4" Working Pressure of shell by Rules 450 lb

Crown or End Plates:—Material SA Steel Thickness 1 1/8" How stayed SA Steel

UPERHEATER. Type Intake Date of Approval of Plan 10/12/37 Tested by Hydraulic Pressure to 675 lb

Date of Test Sept 22, 1938 in ship Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes, by hand

Diameter of Safety Valve 2 1/2" Pressure to which each is adjusted 425 lb Is easing gear fitted Yes

Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 72-1 1/2" - 109"

Spare Gear. Tubes 10-2" + 22-1 1/2" Gaskets or joints:—Manhole 3 7/8" Handhole 12" Handhole plates SA Steel

The foregoing is a correct description,

Foster Wheeler Corp.

Manufacturer.

Dates of Survey 1938 Jan 21 Feb 15 March 19, 21, 29, 31 Apr 22 Is the approved plan of boiler forwarded herewith Yes-3.

while building July 5-18-25-27 Aug 12 Sept 10-17-23 Oct 14 Total No. of visits Twenty (21) one.

board vessel Dec 19-24 Nov 9-14 Nov 25-26 Dec 13

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These boilers have been built & erected under Special Survey. — Plans refer N.Y. Reg. No 38442 with Electric Welding Test (particulars attached) Remarks — in accordance with the Rules & approved plans, & the workmanship & material throughout are good. Same have been hydrostatically tested in place on board the vessel with all fittings & piping & subsequently run under working conditions & are eligible in my opinion to be classed & receive the notation Two Water Tube Boilers 450 lb F.D. made in Regular Book.

Survey Fee ... N.Y. £ \$175.00 : When applied for, January 3 19 39

Travelling Expenses (if any) £ \$175.00 : When received, 24. 1. 19 39

New York \$10.00

Baltimore \$28.00

Engineer Surveyor to Lloyd's Register of Shipping.

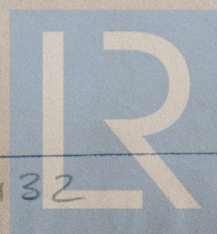
Committee's Minute

Assigned 2 W.T.B. (Spt) 450 lbs Steam Pressure

Vote F.II.

NEW YORK JAN 11 1939

W160-0132



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