

REPORT ON WATER TUBE BOILERS.

No. 856
(See Phil. Rpt. No. 7418)

Received at London Office

FEB -9 1938

of writing Report Aug. 18, 1937 When handed in at Local Office 19 Port of Cleveland, Ohio.

No. in Survey held at Dansville, New York. Date, First Survey August 4th, 1937.
eg. Bk. on the (Sun Shipbuilding & Dry Dock Company Hull No. 165) RHODE ISLAND Tons { Gross 8562
Net 8070
Built at Chester, Pa. By whom built Sun S.B. & D.D. Co. When built 1937
Engines made at Chester, Pa. By whom made Sun S.B. & D.D. Co. When made 1937
Boilers made at Cartaret, N.J. By whom made Foster Wheeler Corp. When made 1937
Nominal Horse Power 1197 Owners The Texas Company Port belonging to

WATER TUBE BOILERS ~~MAIN, AUXILIARY, OR~~ **DONKEY.**—Manufacturers of Steel Lukens Steel Co.
Letter for Record S Date of Approval of plan 12/3/37 Number and Description or Type One Watertube (Exhaust Gas fired only)
Boilers One Watertube (Exhaust Gas fired only) Working Pressure 227# Tested by Hydraulic Pressure to 454# Date of Test 18/5/37
o. of Certificate - Can each boiler be worked separately Yes Total Heating Surface of Boilers 1872 sq.ft.
forced draught fitted No Area of fire grate (coal) in each Boiler Motor Vessel Total grate area of boilers in vessel including
Main and Auxiliary - No. and type of burners (oil) in each boiler Exhaust Gas fired only No and description of safety valves on
each boiler Two Area of each valve 1.77 sq." Pressure to which they are adjusted 227#
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 10'11-3/4" Width and Length 5'11-1/2" x 10'11"
Steam Drums:—Number in each boiler One Inside diameter 30" Material of plates Steel Thickness 7/16"
Range of Tensile Strength 65000 - 75000 # 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 - Pitch of Rivets -
Lap of plate or width of butt strap Butt Joint Thickness of straps - Percentage strength of long. joint:—Plate 90% Allowed Rivet -
Diameter of tube holes in drum 2-1/32" Pitch of tube holes 4-7/8" Percentage strength of shell in way of tubes 58.4%
If Drum has a flat side state method of staying No Flat Side Depth and thickness of girders at centre
if fitted) - Distance apart - Number and pitch of stays in each Main 9/16" Working pressure
by rules Steel Thickness Plain 7/16" Radius or how stayed 30" R.
Size of Manhole or Handhole 12" x 16" Water Drums:—Number in each boiler None Inside Diameter -
Material of plates - Thickness - Range of tensile strength - Are drum shell plates welded
or flanged - Description of riveting:—Cir. seams - long. seams - Diameter of Rivet Holes in
ong. seams - Pitch of rivets - Lap of plates or width of butt straps - Thickness of straps -
Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -
Percentage strength of drum shell in way of tubes - Water Drum Heads or Ends:—Material None Thickness -
Radius or how stayed - Size of manhole or handhole - Headers or Sections:—Number None
Material - Thickness - Tested by Hydraulic Pressure to - Material of Stays -
Area at smallest part - Area supported by each stay - Working Pressure by Rules - Tubes:—Diameter 2"
Thickness 120 Number 80 Steam Dome or Collector:—Description of Joint to Shell None
Percentage strength of Joint - Diameter - Thickness of shell plates - Material -
Description of longitudinal joint - Diameter of Rivet Holes - Pitch of Rivets - Working Pressure of shell
by Rules - Crown or End Plates:—Material - Thickness - How stayed -
SUPERHEATER. Type None Date of Approval of Plan - Tested by Hydraulic Pressure to -
Date of Test - Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler -
Diameter of Safety Valve - Pressure to which each is adjusted - Is easing gear fitted -
Is a drain cock or valve fitted at lowest point of superheater - Number, diameter, and thickness of tubes -
Spare Gear. Tubes - Gaskets or joints:—Manhole - Handhole - Handhole plates -

The foregoing is a correct description,

THIS DRUM IS NUMBERED WHB 90

Manufacturer.

Dates of Survey { During progress of August 4th, 1937, Dansville, N.Y. Is the approved plan of boiler forwarded herewith Yes
while { work in shops - - }
building { During erection on { Total No. of visits One at Dansville, N.Y.
board vessel - - - }

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The subject boiler has been built under Special Survey, in accordance with the Rules and approved plans, and the workmanship and materials are good. The steam drum was built at Cartaret, N.J. and was shipped to Dansville, N.Y. to be fitted to the heating unit. The completed boiler was examined and tested to 454 pounds per square inch hydraulic pressure, with satisfactory results. In my opinion, it is eligible to receive the notation 1 WTDB 227 lbs. Exhaust Gas Fired Only.

Survey Fee CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00
Travelling Expenses (if any) CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00 CLV. 28.00

When applied for, Aug. 18th 1937

When received, Jan. 21 1938

E. Drummond

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK JAN 26 1938

Assigned See Phil Rpt. 7418



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