

REPORT ON WATER TUBE BOILERS.

No. 1381

Received at London Office

1 APR 1950

Report made at Barberton, Ohio When handed in at Local Office Barberton, Ohio 19 March 21 Port of Cleveland, Ohio

Survey held at Barberton, Ohio Date, First Survey March 21 Last Survey May 2, 1949

on the Tanker - Hull 573 - Two Main W.T. Boilers (Number of Visits 9) Gross Tons - Net Tons -

Chester, Pennsylvania By whom built Sun Shipbuilding & Dry Dock Co. When built -

made at Barberton, Ohio By whom made Babcock & Wilcox Co. When made 1949

Horse Power - Owners - Port belonging to -

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

Approval of plan Dec. 28, 1948 Feb. 1, 1949 Number and Description or Type 2 Marine (2) Drum Type

Working Pressure 685 psi Tested by Hydraulic Pressure to 1028 psi Date of Test -

Can each boiler be worked separately Yes Total Heating Surface of Boilers 930 sq. ft. each Superheat 2040 sq. ft. Economizer 7390 sq. ft. Boiler

Area of fire grate (coal) in each Boiler Four (4) Straight Mechanical No. and description of safety valves on -

Area of each set of valves per boiler - Pressure to which they -

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

Smallest distance between boilers or uptakes and bunkers or woodwork - Height of boiler 22' - 6"

Steam Drums:—Number in each boiler One Inside diameter 46 27/32"

Range of Tensile Strength 70,000 Minimum Are drum shell plates welded -

Welded Yes If fusion welded, state name of welding firm Babcock and Wilcox Co. Have all the requirements of the rules -

Description of riveting:—Cir. seams No Riveting long. seams -

Pitch of rivets - Thickness of straps - Percentage strength of -

Diameter of tube holes in drum 1 1/4" - 2" - 3 1/4" of tube holes 1.75"

Range of tensile strength 70,000 min.

Size of manhole or handhole 12" x 16" Water Drums:—Number -

Range of tensile strength 70,000 min. Are drum shell plates -

Welded Yes If fusion welded, state name of welding firm Babcock and Wilcox Co. Have all the requirements of the rules -

Description of riveting:—Cir. seams No Riveting long. seam -

Pitch of rivets - Thickness of straps -

Diameter of tube holes in drum 1 1/4" - 2" - 3 1/4" Pitch of tube holes 1.75"

Range of Tensile strength 70,000 Min.

Size of manhole or handhole 12" x 16"

Tested by Hydraulic Pressure to 1370 psi

Material O.H. Seamless Thickness .875" Number 1422 Steam Dome or Collector:—Description of -

Material Carbon Steel Range of tensile strength 70,000 min. Are drum shell plates welded -

Welded Yes If fusion welded, state name of welding firm - long. seams -

Description of riveting:—Cir. seams - long. seams -

Pitch of rivets - Thickness of straps - Percentage strength of -

Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of -

Range of tensile strength - Thickness - Range of tensile strength -

Size of manhole or handhole 3 3/4" x 3 3/8" Number, diameter, and thickness of tubes 148 - 1 1/4" x .135"

Is a safety valve fitted to each section of the superheater which -

Date of Test - Area of each set -

No. and description of Safety Valves - Is easing gear fitted -

Pressure to which they are adjusted -

Has the spare gear required by the rules been supplied -

MB 4341 Boiler No. 1 and 2

The foregoing is a correct description,

Manufacturer.

During progress of work in shops Mar. 21, 28, 31, April 7, 6, 20, 21, 27, May 2, 1949 the approved plan of boiler forwarded herewith No

During erection on board vessel - Total No. of visits 9

Is this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. Sun Hulls 570-576

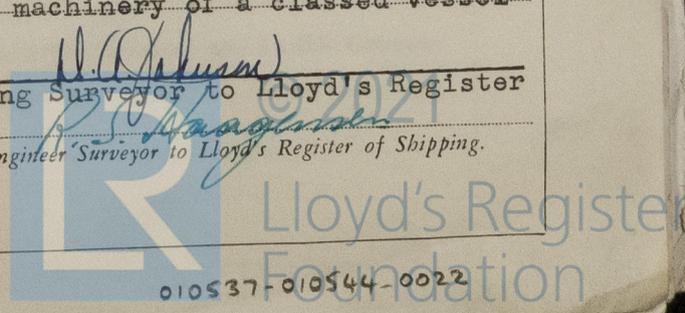
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler components consisting of Drums, superheater, waterwall and economizer headers were built in accordance with approved drawings and under Special Survey during construction by Surveyors to this Society. The workmanship is satisfactory throughout and it is recommended that the Boilers become part of the machinery of a classed vessel with the notation in the Register Book of (2) WTB 685 psi SPT.

When received, 19 Acting Surveyor to Lloyd's Register

Travelling Expenses (if any) \$ 65 00 When received, 19 Engineer Surveyor to Lloyd's Register of Shipping.

Philadelphia Surveyors. NEW YORK MAR 8 - 1950

Committee's Minute signed PHL. RPT. NO. 9401 attached



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