

Cargo Boiler

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 1005

Received at London Office

FEB 17 1941

Date of writing Report Sept. 17, 1940. When handed in at Local Office 19 Port of Cleveland, Ohio.

No. in Survey held at Dansville, N.Y. Date, First Survey August 18th, Last Survey August 19th, 1940.

Reg. Bk. on the (Sun Shipbuilding & Dry Dock Co's Hull No. 196) (Number of Visits 2) Tons { Gross _____ Net _____

Master _____ Built at _____ By whom built _____ When built _____

Engines made at Dansville, N.Y. By whom made _____ When made _____

Boilers made at Chester, Pa. By whom made Foster Wheeler Corp. (FWB-402) When made 1940

Registered Horse Power _____ Owners Sun Oil Company Port belonging to _____

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

(Letter for Record _____) Date of Approval of plan _____ Number and Description or Type of Boilers (1) Water Tube Working Pressure 245# Tested by Hydraulic Pressure to 368# Date of Test 8/19/40

No. of Certificate _____ Can each boiler be worked separately _____ Total Heating Surface of Boilers _____

Is forced draught fitted _____ Area of fire grate (coal) in each Boiler _____ Total grate area of boilers in vessel including Main and Auxiliary _____ No. and type of burners (oil) in each boiler _____ No. and description of safety valves on each boiler _____

Are they fitted with easing gear _____ 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 _____ Width and Length _____

Steam Drums:—Number in each boiler _____ 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 long. seams _____ Pitch of Rivets _____

Lap of plate 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 shell in way of tubes _____

If Drum has a flat side state method of staying _____ Depth and thickness of girders at centre (if fitted) _____ Distance apart _____ Number and pitch of stays in each _____ Working pressure by rules _____

Size of Manhole or Handhole _____ Water Drums:—Number in each boiler _____ 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 long. 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 _____ Thickness _____ Radius or how stayed _____

Material Steel Thickness 11/16 Av. Wall Tested by Hydraulic Pressure to 368-Lbs. Material of Stays _____

Area at smallest part _____ Area supported by each stay _____ Working Pressure by Rules _____ Tubes:—Diameter 2"

Thickness #10. B.W.G. Number 748 Steam Dome or Collector:—Description of Joint to Shell _____

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 _____

SPERHEATER. Type _____ 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,

Manufacturer.

Dates of Survey { During progress of work in shops - - } August 18th and 19th, 1940. Is the approved plan of boiler forwarded herewith while { During erection on board vessel - - - } Total No. of visits 2

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Headers for this boiler, also a mud drum 7-1/4" square, 11/16" average wall thickness, 16'-0-3/4" length, and a superheater header 8-5/8" O.D., 7/8" thickness, 13'-0" length, made from seamless steel tubes, were examined and tested to 368 lbs., hydraulic pressure. These boiler parts were constructed in accordance with the Rules and approved plans, and the materials and workmanship were found good.

This material has been shipped to the Foster Wheeler Corp., Carteret, N.Y.

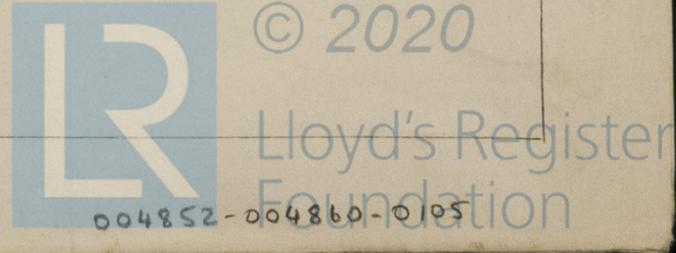
Survey Fee ... : } When applied for, 4 JAN, 1941, AT PHIL.

Travelling Expenses (if any) \$12.00 : } When received, 19

J. Drummond
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JAN 8 - 1941

Assigned See attached Report Chl. No. 7989.



If not, state whether and when, one will be sent. Is a Report also sent on the Hull of the Ship?