

# REPORT ON WATER TUBE BOILERS.

No. 51671



DRUMS

Received at London Office

2 JUN 1952

Writing Report 3 June 1952 When handed in at Local Office 4 June 1952 Port of NEW YORK  
 Survey held at CARTERET, N.J. Date, First Survey 8th Feb. 1952 Last Survey 20th May 1952  
 on the Kockums Mekaniska Verksted HULL No. 360 (Number of Visits 12) {Gross Tons }  
 By whom built \_\_\_\_\_ When built \_\_\_\_\_  
 made at \_\_\_\_\_ By whom made \_\_\_\_\_ When made \_\_\_\_\_  
 made at Carteret, N.J. By whom made Foster Wheeler Corp. When made 1952  
 Horse Power \_\_\_\_\_ Owners North American Shipping & Trading Co. Inc. Port belonging to \_\_\_\_\_

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Shells: Luckens Ends: Bethlehem Steel Corp.

Approval of plan January 28, 1952 Number and Description or Type  
 4 Drums only, 2 steam 2 water Working Pressure 490 P.S.I. Tested by Hydraulic Pressure to 735 P.S.I. Date of Test 17th & 22nd Apr. 1952

Certificate B4893 Nos. 1&2 Can each boiler be worked separately Total Heating Surface of Boilers  
 draught fitted B4894 Nos. 1&2 Area of fire grate (coal) in each Boiler

Type of burners (oil) in each boiler \_\_\_\_\_ No. and description of safety valves on \_\_\_\_\_  
 Area of each set of valves per boiler { per rule \_\_\_\_\_ as fitted \_\_\_\_\_ 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 \_\_\_\_\_

Steam Drums:—Number in each boiler One Inside diameter 42"  
 Range of Tensile Strength 70,000 lbs. min. Are drum shell plates welded

If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules  
 Yes Description of riveting:—Cir. seams \_\_\_\_\_ long. seams \_\_\_\_\_

Pitch of rivets \_\_\_\_\_ Thickness of straps \_\_\_\_\_ Percentage strength of  
 Diameter of tube holes in drum 1.278" 2.028" 3.026" (2 1/4" 2 3/4")

Steam Drum Heads or Ends:—Range of tensile strength 70,000 lbs. min.  
 Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Water Drums:—Number

Thickness of plates 1 3/32" Range of tensile strength 70,000 lbs. min. Are drum shell plates  
 If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules

Water Drum Heads or Ends:—Range of Tensile strength 70,000 lbs. min.  
 Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16"

Number \_\_\_\_\_ Material \_\_\_\_\_ Thickness \_\_\_\_\_ Tested by Hydraulic Pressure to \_\_\_\_\_  
 Diameter \_\_\_\_\_ Thickness \_\_\_\_\_ Number \_\_\_\_\_ Steam Dome or Collector:—Description of

Shell \_\_\_\_\_ Inside diameter \_\_\_\_\_ Thickness of shell plates \_\_\_\_\_ Range of tensile  
 Description of longitudinal joint \_\_\_\_\_ If fusion welded, state name of welding

Have all the requirements of the rules for Class I vessels been complied with \_\_\_\_\_ Diameter of rivet holes \_\_\_\_\_  
 Thickness of straps \_\_\_\_\_ Percentage strength of long. joint \_\_\_\_\_ Plate \_\_\_\_\_ Rivet \_\_\_\_\_

Drum Heads or Ends:—Number in each boiler \_\_\_\_\_ Inside Diameter \_\_\_\_\_  
 Material \_\_\_\_\_ Range of tensile strength \_\_\_\_\_ Are drum shell plates welded

If fusion welded, state name of welding firm \_\_\_\_\_ Have all the requirements of the rules  
 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

Drum Heads or Ends:—Thickness \_\_\_\_\_ Range of tensile strength \_\_\_\_\_  
 Size of manhole or handhole \_\_\_\_\_ Number, diameter, and thickness of tubes \_\_\_\_\_

Hydraulic Pressure to \_\_\_\_\_ Date of Test \_\_\_\_\_ Is a safety valve fitted to each section of the superheater which  
 No. and description of Safety Valves \_\_\_\_\_ Area of each set

Pressure to which they are adjusted \_\_\_\_\_ Is easing gear fitted \_\_\_\_\_  
 Gear. Has the spare gear required by the rules been supplied \_\_\_\_\_

The foregoing is a correct description,  
 FOSTER WHEELER CORP. H. E. Keating Manufacturer.

During progress of work in shops 8th, 14th, 21st, 28th Feb. 1952 Is the approved plan of boiler forwarded herewith No  
 During erection on board vessel 6th March 1952 Total No. of visits 12  
 10th, 17th, 22nd & 24th April 1952  
 1st, 12th & 20th May 1952

Is 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.) These fusion welded drums have been made  
 tested in accordance with the approved plans and requirements for Class 1 Fusion Welding and  
 workmanship and materials are good. When the drums have been installed on board Kockums, Malmo,  
 Hull No. 360 in accordance with the Rules and to the satisfaction of the Surveyor, the  
 vessel will be eligible in our opinion to receive the notation of 2 WTBS (Spt) 490 P.S.I.

When applied for June 18/52  
 When received 19

NEW YORK JUN 18 1952

H. J. Saunders & Co. Ltd.  
 Engineer Surveyors to Lloyd's Register of Shipping.

FRIDAY 15 JAN 1954

See Rpt. 4a (Memo)

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