Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 3684

Received at London Office 18 JUN 1947

Date of writing Report ..... 191 .... When handed in at Local Office ..... 191 .... Port of SEATTLE, WASHINGTON

No. in Reg. Bk. 76450 — Survey held at PORTLAND, OREGON — Date, First Survey March 3rd — Last Survey April 1st 191 47 — Number of Visits 6

on the "THEMONI" (ex "JOSIAH COHEN") — Tons Gross 7198 Net 4364

Master ..... Built at Savannah, Georgia — By whom built Southeastern Shipbuilding Corp. — When built 1944

Engines made at Hamilton, Ohio — By whom made General Machinery Corp. — When made 1944

Boilers made at Springfield Ohio — By whom made Springfield Boiler Co. — When made 1944

Registered Horse Power 648 — Owners Kassos Steam Navigation Co. Ltd. — Port belonging to Cyra, Greece

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WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—*Manufacturers of Steel* Lukens, Coatesville, Pa. See Thora Dan

(*Letter for Record* .....) *Date of Approval of plan* May 20, 1941. American Bureau of Shipping **Number and Description or Type of Boilers** Two WT B&W Type

Working Pressure 250 Lbs. per sq.in. *Tested by Hydraulic Pressure to* 500 Lbs. per sq. in. *Date of Test* Boiler 9704 Sh 529

No. of Certificate ..... *Can each boiler be worked separately* Yes **Total Heating Surface of Boilers** 10233 sq.ft.

Is forced draught fitted Yes **Area of fire grate (coal) in each Boiler** Oil fired *Total grate area of boilers in vessel including Main and Auxiliary* ---

No. and type of burners (oil) in each boiler 4 - Pressure type *No. and description of safety valves on each boiler* One - 4" Twin Approved High Lift *Area of each valve* ~~as fitted 25.13 sq. ins.~~ per rule - 16 sq.ins. *Pressure to which they are adjusted* 240 lb. sq.in.

Are they fitted with easing gear Yes *In case of donkey boilers state whether steam from main boilers can enter the donkey boiler* x

Smallest distance between boilers or uptakes and bunkers or woodwork — *Height of Boiler* 16'-5-5/8" *Width and Length* 14'-7-3/4" x 17'-4"

Steam Drums:—*Number in each boiler* One *Inside diameter* 47-3/8" *Material of plates* O.H. Steel *Thickness* 15/16"

Range of Tensile Strength 70,000 to 82,000 lbs.per sq.in. *Are drum shell plates welded or flanged* welded ~~*Description of riveting:—*~~

~~*Circ. 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 4-1/32" *Pitch of tube holes* 7" *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* .....

Steam Drum Heads or Ends:—*Material* ..... *Thickness* 15/16" *Radius or how stayed* Ellipsoidal

Size of Manhole or Handhole 12"x16" **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: Circ. 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*~~ ~~*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*~~ ~~*Size of manhole or handhole*~~ **Headers or Sections:**—*Number* 44 Sinuous

Material OHS *Thickness* 19/32 *Tested by Hydraulic Pressure to* --- *Material of Stays* ---

Area at smallest part ..... *Area supported by each stay* ..... *Working Pressure by Rules* ..... **Tubes:**—*Diameter* 4" 2"

Thickness E6 BWG #10 BWG *Number* 88 - 602 ~~**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*~~

SUPERHEATER. *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* Yes

Diameter of Safety Valve One 1-1/2" *Pressure to which each is adjusted* 230 lbs. per sq.in. *Is easing gear fitted* Yes

Is a drain cock or valve fitted at lowest point of superheater Yes *Number, diameter, and thickness of tubes* 22 - 2" Dia. x 10 B.W.G.

Spare Gear. *Tubes* - *Gaskets or joints:—Manhole* - *Handhole* ..... *Handhole plates* .....

As required by the Rules

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building — *During progress of work in shops* - - ..... *Is the approved plan of boiler forwarded herewith* .....

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

GENERAL REMARKS (*State quality of workmanship, opinions as to class, &c.*) These Boilers were built under the Special Survey of the American Bureau of Shipping. The particulars as shown on this report were obtained from available plans and from the vessel. The scantlings and general arrangement of these boilers have been verified as far as practicable. (See Rpt. 9 attached herewith for recommendations).

Survey Fee ... ... £ See Rpt 4.

Travelling Expenses (if any) £ — :

When applied for, ... 191

When received, ... 191

James F. Robertson

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK MAY 28 1947 J.G.J.

Assigned 2 WTB (SPT) 250 lbs.

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