Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 17218

Date of writing Report 31st Jan 1950 When handed in at Local Office ..... 19.... Received at London Office 22 FEB 1950 Port of Amsterdam

No. in Reg. Bk. 10848 Survey held at Amsterdam Date, First Survey 12th January Last Survey 25th Jan. 1950

on the S/S "GLADYS MOLLER" (T2 Tanker) (Number of Visits 5) Tons Gross 10712 Net 6408

Master ..... Built at Chester, Pa. U.S.A. By whom built Sun S.B & Dry Dock Co When built 1945

Engines made at Jeanette, Pa. U.S.A. By whom made Elliott Company When made 1945

Boilers made at Barberton, Ohio - U.S.A. By whom made Babcock & Wilcox Co. When made 1945

Registered Horse Power 6600 Owners Moller Line (U.K.) Ltd. Port belonging to London

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

(Letter for Record ✓) Date of Approval of plan American Bureau of Shipping Number and Description or Type of Boilers 2 B&W with waterwall at 3 sides Working Pressure 500 lbs Tested by Hydraulic Pressure to 750 lbs Date of Test A.B.S. 7-7-45

No. of Certificate ✓ Can each boiler be worked separately yes ✓ Total Heating Surface of Boilers 11868 sq.ft. (SEE F)

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 - B&W Decagon No. and description of safety valves on each boiler 2 (φ 2½") Spring Loaded High Lift Area of each valve 4.92 □" Pressure to which they are adjusted 480 lbs.

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 21' Width and Length 11'10" - 17'2"

Steam Drums:—Number in each boiler one ✓ Inside diameter 42" ✓ Material of plates SM steel Thickness 1 15/16" ✓ & 25/32"

Range of Tensile Strength ✓ Are drum shell plates welded or flanged welded 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 4½" circulating, 4" header nipples 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 SM steel Thickness 1'1/4" ✓ Radius or how stayed Ellipsoidal ✓

Size of Manhole ~~or Handhole~~ 12" x 16" ✓ **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 ✓ Size of manhole or handhole ✓ **Headers or Sections:**—Number ✓14

Material SM steel 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 1'1/4" water tubes (upper), 2" water tubes (lower), 3'1/4" waterwall tubes

Thickness 0.095" - 0.134" - 0.203" Number 1148-56-36 **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 B&W Date of Approval of Plan A.B.S. Tested by Hydraulic Pressure to ✓

Date of Test ✓ Is a safety valve fitted to ~~each section of~~ the superheater (which can NOT be shut off from the Boiler) yes ✓

Diameter of Safety Valve 1½" single high Lift Pressure to which each is adjusted 440 lbs ✓ Is easing gear fitted yes ✓

Is a drain cock or valve fitted at lowest point of superheater yes ✓ Number, diameter, and thickness of tubes 219 - 1'1/4" - 0.120"

Spare Gear. Tubes 27 - φ 1'1/4" 3 - φ 2" Gaskets or joints:—Manhole 5 Handhole 1078 Handhole plates 13

F. Heating surfaces: One boiler = 4934 sq.ft
" waterwall = 158 sq.ft.
" superheater = 842 sq.ft.
Per Boiler = 5934 sq.ft.

The foregoing is a correct description,

..... Manufacturer.

Dates of Survey while building: During progress of work in shops - - A.B.S. 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 with their superheaters have been built under supervision of the American Bureau of Shipping, and U.S. Coast Guards, and the materials and workmanship are considered satisfactory. The scantlings have been verified as far as practicable and found in accordance with the plans on board.

For recommendations as to class etc. please see Survey Rpt 9.

Survey Fee ... ... £

Travelling Expenses (if any) £ on Rpt 9

When applied for, ... 19....

When received, ... 19....

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 14 APR 1950

Assigned

Ent 3/4/50

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