

REPORT ON BOILERS.

No. 16385.

21 DEC 1948

Received at London Office

of writing Report 6th Dec. 1948. When handed in at Local Office 17th Dec. 1948. Port of Gothenburg

o. in Survey held at Gothenburg Date, First Survey 30th August Last Survey 29th November 1948.

Book. (Number of Visits 28) Tons Gross 14567 Net 8631

0599 on the Motor Tanker "ATLANTIC QUEEN"

ster Built at Gothenburg By whom built A-B. Götaverken Yard No. 628 When built 1948

gines made at Gothenburg By whom made A-B. Götaverken Engine No. 2074 When made 1948

lers made at Stockton By whom made Stockton C.E. & R.B. Co., Ltd. Boiler No. 7046/7 When made 1948

iminal Horse Power Owners Rederi A-B. Monacus Port belonging to Kungälv

ULTITUBULAR BOILERS ~~XXXXXXXXXXXXXXXXXXXX~~ DONKEY.

manufacturers of Steel Appleby Frodingham Steel Co., Ltd. (Letter for Record s)

tal Heating Surface of Boilers 2 x 2720 square feet Is forced draught fitted Yes Coal or Oil fired Oil

. and Description of Boilers 2 Scotch Donkey Boilers Working Pressure 150 lbs/in<sup>2</sup>

sted by hydraulic pressure to 275 Date of test 19/3 & 13/4 No. of Certificate 7235 & 7238 Can each boiler be worked separately Yes

ea of Firegrate in each Boiler --- No. and Description of safety valves to each boiler Double spring loaded

ea of each set of valves per boiler per Rule 13125 mm<sup>2</sup> as fitted 15706 mm<sup>2</sup> Pressure to which they are adjusted 150 lb/in<sup>2</sup> Are they fitted with easing gear Yes

case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers fitted

allest distance between boilers or uptakes and bunkers or woodwork Abt 1 M. from AP Bhd. Is oil fuel carried in the double bottom under boilers. No

allest distance between shell of boiler and tank top plating Boilers on a platform aft in ER Is the bottom of the boiler insulated ---

rgest internal dia. of boilers Length Shell plates: Material Tensile strength

ickness Are the shell plates welded or flanged Description of riveting: circ. seams { end. inter. }

g. seams Diameter of rivet holes in { circ. seams long. seams } Pitch of rivets { }

centage of strength of circ. end seams { plate rivets } Percentage of strength of circ. intermediate seam { plate rivets }

centage of strength of longitudinal joint { plate rivets combined } Working pressure of shell by Rules

ickness of butt straps { outer inner } No. and Description of Furnaces in each Boiler

aterial Tensile strength Smallest outside diameter

ngth of plain part { top bottom } Thickness of plates { crown bottom } Description of longitudinal joint

mensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

d plates in steam space: Material Tensile strength Thickness Pitch of stays

we are stays secured Working pressure by Rules

be plates: Material { front back } Tensile strength Thickness { }

an pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front back }

ders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

centre Length as per Rule Distance apart No. and pitch of stays

each Working pressure by Rules Combustion chamber plates: Material

ile strength Thickness: Sides Back Top Bottom

ch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

rking pressure by Rules Front plate at bottom: Material Tensile strength

ckness Lower back plate: Material Tensile strength Thickness

ch of stays at wide water space Are stays fitted with nuts or riveted over

rking pressure Main stays: Material Tensile strength

ometer { At body of stay or Over threads } No. of threads per inch Area supported by each stay

rking pressure by Rules Screw stays: Material Tensile strength

ometer { At turned off part or Over threads } No. of threads per inch Area supported by each stay

9.5  
21  
11  
109

Working pressure by Rules..... Are the stays drilled at the outer ends..... Margin stays: Diameter { At turned off part, or Over threads.....  
No. of threads per inch..... Area supported by each stay..... Working pressure by Rules.....  
Tubes: Material..... External diameter { Plain..... Stay..... Thickness { No. of threads per inch.....  
Pitch of tubes..... Working pressure by Rules..... Manhole compensation: Size of opening in shell plate..... Section of compensating ring..... No. of rivets and diameter of rivet holes.....  
Outer row rivet pitch at ends..... Depth of flange if manhole flanged..... Steam Dome: Material.....  
Tensile strength..... Thickness of shell..... Description of longitudinal joint.....  
Diameter of rivet holes..... Pitch of rivets..... Percentage of strength of joint { Plate..... Rivets.....  
Internal diameter..... Working pressure by Rules..... Thickness of crown..... No. and diameter of stays..... Inner radius of crown..... Working pressure by Rules.....  
How connected to shell..... Size of doubling plate under dome..... Diameter of rivet holes at connection of rivets in outer row in dome connection to shell.....  
Type of Superheater..... Manufacturers of { Tubes..... Steel forgings..... Steel castings.....  
Number of elements..... Material of tubes..... Internal diameter and thickness of tubes.....  
Material of headers..... Tensile strength..... Thickness..... Can the superheater be shut off from the boiler.....  
Is a safety valve fitted to every part of the superheater which can be shut off from the boiler.....  
Area of each safety valve..... Are the safety valves fitted with easing gear..... Working pressure.....  
Rules..... Pressure to which the safety valves are adjusted..... Hydraulic test pressure.....  
tubes..... forgings and castings..... and after assembly in place..... Are drain valves fitted to free the superheater from water where necessary.....  
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with..... Yes

The foregoing is a correct description,

AKTIEBOLAGET GÖTAVERKEN

Dates of Survey while building { During progress of work in shops - - - Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
During erection on board vessel - - - 30th August - 29th November, 1948 Total No. of visits..... 28

Is this Boiler 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 donkey boilers have been securely fitted in the vessel under my inspection and to my satisfaction and the safety valves adjusted under steam to 150 lbs. per square inch. Please also see Middlesbrough reports Nos. 18489 and 18490.

An exhaust gas economiser of A-B. Götaverken's tubular type has been fitted in the vessel. The economiser has been built under special survey and of tested material, tested hydraulically to 19.25 kgs. per square centimeter on the 22nd October, 1948, and marked:

LLOYD'S TEST 19.25 kgs.  
WP 10.5 kgs.  
OS 22.10.48

The safety valves have been adjusted under steam to 150 lbs. per square inch.

Survey Fee ... £ -- : -- : -- } When applied for..... 19. ....  
Travelling Expenses (if any) £ -- : -- : -- } When received..... 19. ....

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute.....

Assigned *For work see J.E. Rife*

FRI, 28 JAN 1949



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Foundation