

# REPORT ON BOILERS.

No. 9044-B

Received at London Office 9 SEP 1957

Writing Report 27 May, 1957. When handed in at London Office 19... Port of NEW ORLEANS, LOUISIANA

Survey held at Tampa, Florida Date, First Survey 4 January Last Survey 18 April, 57

Good look. 0104 on the S.S. "ALPHA" (Number of Visits 6) Tons { Gross 4519 Net ...

Wallsend-On-Tyne By whom built Swan, Hunter & Wigham Richardson Yard No. When built 1928 - 5

made at Montreal By whom made Canadian Vickers, Ltd. Engine No. When made 1941

made at Montreal By whom made Canadian Vickers, Ltd. Boiler No. 5676 & - When made 1940

Horse Power 398 Owners Liberian Carriers, Inc. Port belonging to Monrovia

## TITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY

Manufacturers of Steel (Letter for Record S)

Heating Surface of Boilers (2) 7150 Sq. Ft. Is forced draught fitted Yes Coal or Oil fired Oil Fired

Description of Boilers Two Multitubular Working Pressure 225 lb.

Hydraulic pressure 387 lb. Date of test No. of Certificate Can each boiler be worked separately Yes

Firegrate in each boiler Oil Fired No. and Description of Safety valves to each boiler 2- Canadian Cockburn Morrison 2 3/4

each set of valves per boiler { per Rule 9.32 as fitted 11.88 Pressure to which they are adjusted 225 lb. Are they fitted with easing gear Yes

If donkey boilers, state whether steam from main boilers can enter the donkey boiler Main Boilers

Distance between boilers or uptakes and bunkers or woodwork None Near Is oil fuel carried in the double bottom under boilers Yes

Distance between shell of boiler and tank top plating 1' - 6" Is the bottom of the boiler insulated Yes

Internal diameter of boilers 16' - 6" Length 12' - 6" Shell plates: Material Steel Tensile strength 30 - 34 tons

1-9/16" Are the shell plates welded or flanged No Description of riveting: circ. seams { end D.R. inter. None 4" Pitch of rivets { 11" None None

T.R. D.B.S. Diameter of rivet holes in { circ. seams 1-1/2" long. seams 1-5/8" Percentage of strength of circ. intermediate seam { plate None rivets None

of strength of circ. end seams { plate 62.5 rivets 44.3

of strength of longitudinal joint { plate 85.2 rivets 86.6 combined 86.8

of butt straps { outer 1-3/16 inner 1-5/16 No. and Description of Furnaces in each Boiler Three Corrugated - Deighton

Steel Tensile strength 26 - 30 Tons Smallest outside diameter 48-1/2"

plain part { top 9-11/16 bottom 9-11/16 Thickness of plates { crown 3/4" Description of longitudinal joint Welded bottom None

of stiffening rings on furnace or c.c. bottom None

plates in steam space: Material Steel Tensile strength 26 - 30 Tons Thickness 1-7/16" Pitch of stays 22-1/2" x 18-5/8"

stays secured Double Nuts

plates: Material { front Steel Tensile strength 26 - 30 tons Thickness 15/16" back Steel Tensile strength 26 - 30 tons Thickness 13/16"

of stay tubes in nests 8.65" Pitch across wide water spaces 13-1/2"

combustion chamber tops: Material Steel Tensile strength 28 - 32 tons/ Depth and Thickness of girder 10-3/8" Length as per Rule 36-5/16" Distance apart 10-1/4" No. and pitch of stays

Three X 8-5/8" Combustion chamber plates: Material Steel

Strength 26-30 tons Thickness: Sides 25/32" Back 11/16" Top 25/32" Bottom 1"

stays to ditto: Sides 10-3/4" x 8-5/8" Back 8" x 8-3/4" Top 8-5/8" x 10-1/4" Are stays fitted with nuts or riveted over Nuts

plate at bottom: Material Steel Tensile strength 26 - 30 tons p.s.i.

15/16" Lower back plate: Material Steel Tensile strength 26 - 30 tons p.s.i. Thickness 1"

stays at wide water space 8" x 15" Are stays fitted with nuts or riveted over Nuts

plates: Material Steel Tensile strength 28 - 32

At body of stay or Over threads 3-1/2" No. of threads per inch 6

plates: Material Steel Tensile strength 26 - 30 tons p.s.i.

At turned off part or Over threads 2-1/8", 2", 1-7/8", 1-3/4" No. of threads per inch 9

SA 9044

Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, or 1-7/8", 2" and Over threads... **pt. 4**

No. of threads per inch 9

Tubes: Material Steel External diameter { Plain 2-1/2" Stay 2-1/2" Thickness { 8 BWG 5/16", 3/8" & 7/16" No. of threads per inch 9

Pitch of tubes 3-3/4" x 3-3/4" Manhole compensation: Size of opening 26 - 1-1/2"

shell plate 16-1/2" x 20-1/2" Section of compensating ring 2'-9" x 3'-1" x 1-16" No. of rivets and diameter of rivet holes 26 - 1-1/2"

Outer row rivet pitch at ends 11 Depth of flange if manhole flanged 3-1/4" Steam Dome: Material None

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 - Thickness of crown - No. and diameter of rivets -

stays - Inner radius of crown -

How connected to shell - Size of doubling plate under dome - Diameter of rivet holes -

of rivets in outer row in dome connection to shell -

Type of Superheater None 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 -

the boiler be worked separately - 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 -

Pressure to which the safety valves are adjusted - Hydraulic test -

tubes - forgings and castings - and after assembly in place - Are drains -

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 -

The foregoing is a correct description, Man

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 - - - } Total No. of visits -

Boiler No If so, state Vessel's name and Report No. -

Main Boiler a duplicate of a previous case No

Steam -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These boilers were built during the war under the supervision of the Surveyors to the British Corporation and were installed in the war vessel "DAUPHIN" afterwards named "CORTES"

Starboard boiler marked P.C.T. FST No. 5676 TI 387 WP 225

DM 14. 11.40 CM No. 816 D13

Port boiler marks partially undecipherable 31.10.40 O.V. No. 84 AFT.

The manhole compensating plates were examined under pressure and no sign of leakage found.

The boilers were installed under survey and in accordance with approved plans and Rules, hydrostatically and examined under working conditions, the vessel is eligible in our opinion to be classed with notation 2SB

made 1940 fitted 1957. O/F 4,57

Survey Fee	£	:	:	When applied for,	19
Travelling Expenses (if any)	£	:	:	When received,	19

*Wm. B. Cowin*  
Engineer Surveyor to Lloyd's Register of

Committee's Minute NEW YORK AUG 21 1957

Assigned See Rpt 9. N.O.S. 9044

