

REPORT ON BOILERS.

No. 16411.

Received at London Office

22 JUN 1926

Report 16th June 1926 When handed in at Local Office 21 June 1926 Port of WEST HARTLEPOOL

Survey held at West Hartlepool Date, First Survey 29 Sept 1925 Last Survey 15 June 1926.

on the S.S. "CITY OF BATH" (Number of Visits 98.) Tons { Gross 5078.91 Net 3154.47.

Built at West Hartlepool By whom built Wm Gray & Co. Ltd Yard No. 978 When built 1926

Made at West Hartlepool By whom made Central Marine Engine Engine No. 978 When made 1926

and made at ditto By whom made Works Boiler No. 978C When made 1926

Horse Power Owners Ellerman Lines Ltd (Hall Line Ltd) Port belonging to Liverpool

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel D Colville & Sons Ltd (Letter for Record S)

Heating Surface of Boilers 2386 sq. feet Is forced draught fitted yes Coal or Oil fired coal

Description of Boilers One single ended Working Pressure 265

Hydraulic pressure to 448 Date of test 24.2.26 No. of Certificate 3679 Can each boiler be worked separately yes

Grate in each Boiler 50.7 No. and Description of safety valves to each boiler 2 Cockburns high lift

Each set of valves per boiler { per Rule 7.1 as fitted 11.88 Pressure to which they are adjusted 270 lb Are they fitted with easing gear yes

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

Distance between boilers or uptakes and bunkers or woodwork 16" Is oil fuel carried in the double bottom under boilers no

Distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Internal dia. of boilers 14'-0" Length 12'-6" Shell plates: Material Steel Tensile strength 30 3/4 / 34

Are the shell plates welded or flanged no Description of riveting: circ. seams { end 8R Lap inter. J.R. Lap

J.R. D.B.S. Diameter of rivet holes in { circ. seams 1 5/8" long. seams 1 5/8" Pitch of rivets { 4 3/4" end. 5" inter. 10 13/16"

of strength of circ. end seams { plate 65.9 rivets 82 of end. Percentage of strength of circ. intermediate seam { plate 67.5 rivets 60.6

of strength of longitudinal joint { plate 85 rivets 90 combined 87.8 Working pressure of shell by Rules 266

of butt straps { outer 1 3/16" inner 1 5/16" No. and Description of Furnaces in each Boiler 3 Deighton's

Steel Tensile strength 26 / 30 Smallest outside diameter 38 13/16"

plain part { top bottom Thickness of plates { crown 23" bottom 32" Description of longitudinal joint welded

of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 272

in steam space: Material Steel Tensile strength 26 / 30 Thickness 1 1/4" Pitch of stays 18" x 18 1/2"

stays secured D. nuts & washers Working pressure by Rules 267

Material { front steel back steel Tensile strength { 26 / 30 Thickness { 1" 13/16"

of stay tubes in nests 11 1/4" x 7 1/2" Pitch across wide water spaces 13 1/2" x 7 1/2" Working pressure { front 290 back 270

combustion chamber tops: Material Steel Tensile strength 28 / 32 Depth and thickness of girder

0" x 1 3/4" Length as per Rule 35 1/2" Distance apart 8 1/8" No. and pitch of stays

8 3/8" Working pressure by Rules 265 Combustion chamber plates: Material Steel

length 26 / 30 Thickness: Sides 23" / 32 Back 23" / 32 Top 23" / 32 Bottom 7" / 8"

stays to ditto: Sides 7 1/2" x 9" Back 8 1/2" x 8" Top 8 1/8" x 8 3/8" Are stays fitted with nuts or riveted over nuts

pressure by Rules 265 Front plate at bottom: Material Steel Tensile strength 26 / 30

Lower back plate: Material Steel Tensile strength 26 / 30 Thickness 15" / 16"

stays at wide water space 13 1/2" x 8" Are stays fitted with nuts or riveted over nuts

pressure 294 Main stays: Material Steel Tensile strength 28 / 32

body of stay, 3 3/8" No. of threads per inch 6 Area supported by each stay 18" x 18 1/4"

over threads pressure by Rules 265 Screw stays: Material Steel & Iron Tensile strength 26 / 30 & 20 1/2

turned off part, 1 3/4" No. of threads per inch 9 Area supported by each stay 9" x 7 1/2"

over threads

Working pressure by Rules 270 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, ✓
or Over threads 2"
No. of threads per inch 9 Area supported by each stay 8" x 11" Working pressure by Rules 270
Tubes: Material Iron External diameter { Plain 2 1/2" Thickness { 8 W.G. No. of threads per inch 9
Stay 2 1/2" 5/16" x 3/8"
Pitch of tubes 3 3/4" x 3 3/4" Working pressure by Rules 290 Manhole compensation: Size of opening in
shell plate 16" x 20" Section of compensating ring 20" x 1 7/32" No. of rivets and diameter of rivet holes 28 1 5/8"
Outer row rivet pitch at ends 10 13/16" Depth of flange if manhole flanged ✓ 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 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 and pitch
of rivets in outer row in dome connection to shell

Type of Superheater None Manufacturers of { Tubes
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 and
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 Working pressure as per
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure:
tubes, castings and after assembly in place Are drain cocks or valves fitted
to free the superheater from water where necessary

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with

yes FOR THE CENTRAL MARINE ENGINE WORKS,
(W. Gray & Co. Ltd.)
The foregoing is a correct description.

MANAGING DIRECTOR, C.M.E.W.

Dates of Survey { During progress of
work in shops - -
while building { During erection on
board vessel - -

See Report on Machs.

Are the approved plans of boiler and superheater forwarded herewith ✓
(If not state date of approval.)
Total No. of visits ✓

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

See accompanying machinery report.

Survey Fee ... See Report on Machs. When applied for, ✓ 192
Travelling Expenses (if any) £ When received, ✓ 192

R.D. Shilston
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 25 JUN 1926

Assigned

See A.E. rpt. attached



© 2019

Lloyd's Register
Foundation