

REPORT ON BOILERS.

No. 16863

Date of writing Report 20 Feb 1930 When handed in at Local Office 25.2.1930 Port of WEST HARTLEPOOL

No. in Reg. Book. Survey held at West Hartlepool Date, First Survey 29th Oct/29 Last Survey 21st Feb 1930

42784 on the S.S. "VEERHAVEN" (Number of Visits) Gross Tons Net

Master Built at Sunderland By whom built Wm Gray & Co Ltd Yard No. 1032 When built 1930

Engines made at West Hartlepool By whom made Central Marine Engine Engine No. 1032 When made 1930

Boilers made at ditto By whom made Works. Boiler No. 1032 When made 1930

Nominal Horse Power Owners H.V. Gebr. van Uden's Scheepw. en Agentuur Maats Port belonging to Rotterdam

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

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

Total Heating Surface of Boilers 6446 sq. ft. Is forced draught fitted yes Coal or Oil fired coal

No. and Description of Boilers 3, single ended Working Pressure 260 lbs

Tested by hydraulic pressure to 440 lbs Date of test 6.12.29 No. of Certificate 3743 Can each boiler be worked separately yes

Area of Firegrate in each Boiler 158 sq. ft. No. and Description of safety valves to each boiler 2 Cockburns improved high lift

Area of each set of valves per boiler {per Rule 5.07 sq. ft. as fitted 6.28 sq. ft. Pressure to which they are adjusted 265 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 2'-6" Is oil fuel carried in the double bottom under boilers no

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

Largest internal dia. of boilers 14'-3" Length 11'-6" Shell plates: Material Steel Tensile strength 29/33

Thickness 1 5/8" Are the shell plates welded or flanged no Description of riveting: circ. seams end DR Lap

Long. seams J.R. D.B.S. Diameter of rivet holes in {circ. seams 1 5/8" long. seams 1 1/4" Pitch of rivets 4 1/2" 11 3/8"

Percentage of strength of circ. end seams {plate 63.8 rivets 44.9 Percentage of strength of circ. intermediate seam {plate 85.1 rivets 90

Percentage of strength of longitudinal joint {plate 85.1 rivets 90 combined 88.4 Working pressure of shell by Rules 262 lbs

Thickness of butt straps {outer 1 1/4" inner 1 3/8" No. and Description of Furnaces in each Boiler 3 Deighton's 34

Material Steel Tensile strength 26/30 Smallest outside diameter 40 3/8"

Length of plain part {top 3 1/4" bottom 4" Thickness of plates {crown 3 1/4" bottom 4" Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 274 lbs

End plates in steam space: Material Steel Tensile strength 26/30 Thickness 1 3/32" Pitch of stays 18 1/2" x 18"

How are stays secured Double nuts & washers. Working pressure by Rules 264 lbs

End plates: Material {front Steel Tensile strength 26/30 Thickness 1 3/32" 2 3/32"

Pitch of stay tubes in nests 12 3/4" x 8 1/2" Pitch across wide water spaces 14" Working pressure {front 274 lbs back 263 lbs

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

Centre 9 1/4" x 1 3/4" Length as per Rule 2'-9 3/8" Distance apart 8" No. and pitch of stays

Each 3 8 1/2" Working pressure by Rules 267 lbs Combustion chamber plates: Material Steel

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

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

Working pressure by Rules 262 lbs Front plate at bottom: Material Steel Tensile strength 26/30

Thickness 1 3/32" Lower back plate: Material Steel Tensile strength 26/30 Thickness 1 5/16"

Pitch of stays at wide water space 14" x 8 1/8" Are stays fitted with nuts or riveted over nuts

Working Pressure 276 lbs Main stays: Material Steel Tensile strength 28/32

Pitch of stays {At body of stay, 3 3/8" No. of threads per inch 6 Area supported by each stay 18" x 18 1/2"

Working pressure by Rules 262 lbs Screw stays: Material Steel Tensile strength 26/30

Pitch of stays {At turned off part, 1 3/4" No. of threads per inch 9 Area supported by each stay 8 1/2" x 8 1/8"

Working pressure by Rules 262 lbs

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Working pressure by Rules 262 lb. Are the stays drilled at the outer ends no Margin stays: Diameter ^{At turn d off part,} 2"
No. of threads per inch 9 Area supported by each stay 11 1/4" x 8 1/8" Working pressure by Rules 272 lb.
Tubes: Material Iron External diameter ^{Plain} 3 1/2" Thickness ^{7 V.V.G.} 5/16" No. of threads per inch 9
Pitch of tubes 4 1/4" x 4 1/4" Working pressure by Rules 280 + 299 lb. Manhole compensation: Size of opening in
shell plate 16" x 20" Section of compensating ring 22" x 1 5/8" No. of rivets and diameter of rivet holes 28 1 1/16"
Outer row rivet pitch at ends 11 3/8" 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} /
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 Smoke tube Manufacturers of ^{Tubes} The Superheater
^{Steel castings} Co. Ltd.
Number of elements 144 Material of tubes Steel Internal diameter and thickness of tubes 16 mm 3 mm
Material of headers Forged steel Tensile strength ✓ Thickness ✓ Can the superheater be shut off and
the boiler be worked separately yes Is a safety valve fitted to every part of the superheater which can be shut off from the boiler yes
Area of each safety valve 1.767 sq. in. Cateburns improved H.L. Are the safety valves fitted with easing gear yes Working pressure as per
Rules 260 Pressure to which the safety valves are adjusted 265 lb. Hydraulic test pressure:
tubes 1000 lb. castings forging 780 lb. and after assembly in place 520 lb. Are drain cocks or valves fitted
to free the superheater from water where necessary yes
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes

The foregoing is a correct description,
FOR THE CENTRAL MARINE ENGINE WORKS.

(M. Eng. & Co. Ltd.) Manufacturer.

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

All machinery rep'd

Are the approved plans of boiler and superheater forwarded herewith
(If not state date of approval.) /

Total No. of visits /

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.)

See accompanying machinery report

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

R.D. Shilston

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 28 FEB 1930

Assigned

See Sld. J.E. 30295



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Foundation