

REPORT ON BOILERS.

No. 48200

25 JUL 1928

Received at London Office

Date of writing Report 1928 When handed in at Local Office 21. 7. 1928 Port of Glasgow

No. in Reg. Book. Survey held at Glasgow. Date, First Survey 1-2-28 Last Survey 10-4-1928

on the M.V. "CLYDEFIELD." (Number of Visits 58) Gross 6758 Net 3949 Tons

Master Glasgow Built at Glasgow By whom built D & W. Henderson Yard No. 808 When built 1928

Engines made at Glasgow By whom made Harland & Wolff Ltd Engine No. 808 When made 1928

Boilers made at D. By whom made D & W. Henderson & Co Boiler No. 808 When made 1928

Nominal Horse Power 647 Owners Hunting & Son Ltd Port belonging to Newcastle

SEE GLASGOW REPORT. No 44934.

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY.

Manufacturers of Steel (Letter for Record)

Total Heating Surface of Boilers Is forced draught fitted Coal or Oil fired

No. and Description of Boilers Working Pressure

Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler

Area of each set of valves per boiler {per Rule as fitted} Pressure to which they are adjusted 120 lbs. Are they fitted with easing gear Yes.

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

Smallest distance between boilers or uptakes and bunkers or woodwork Well clear. Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating Boilers on upper deck. Is the bottom of the boiler insulated Yes.

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

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

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

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

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

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

Material Tensile strength Smallest outside diameter

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

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

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

How are stays secured Working pressure by Rules

Tube plates: Material {front back} Tensile strength Thickness

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

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

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

in each Working pressure by Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

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

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

Thickness Lower back plate: Material Tensile strength Thickness

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

Working Pressure Main stays: Material Tensile strength

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

Working pressure by Rules Screw stays: Material Tensile strength

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



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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 _____

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 and pitch of rivets in outer row in dome connection to shell _____

Type of Superheater

Number of elements _____ Material of tubes _____ Manufacturers of { Tubes Steel castings _____ 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 _____

The foregoing is a correct description,
 FOR DAVID & W. HENDERSON & CO. LTD. *R. H. Wells* Manufacturer.

Dates of Survey { During progress of work in shops - - - } *See accompanying machinery Report* 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 *58*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been fitted on board the above vessel & properly secured. The boilers were examined under steam and the safety valves adjusted. Fitted for burning oil fuel 4, 28. F.P. above 150°F.*

A. G.
21/7/28

Survey Fee £ : : } When applied for, 192

Travelling Expenses (if any) £ : : } When received, 192

J. Macdonald.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 24 JUL 1928** *WDM*

Assigned *See accompanying Machinery Report*

