

REPORT ON BOILERS.

No. 65770

Received at London Office 29 JUL 1942

Date of writing Report 19 _____ When handed in at Local Office 27.7.1942 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey _____ Last Survey 9th July 1942

on the M.V. "British Merit" (Number of Visits _____ Tons Gross _____ Net _____)

built at Glasgow By whom built Harland & Wolff Ltd Yard No. 11176 When built 1942

engines made at do By whom made do Engine No. 11176 When made 1942

boilers made at Manchester By whom made J. Adamson & Co. Ltd. Boiler No. 99/100 When made 1942

Nominal Horse Power _____ Owners _____ Port belonging to _____

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 Oil

No. and Description of Boilers _____ Working Pressure 150 lb

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

Area of Firegrate in each Boiler _____ No. and Description of safety valves to each boiler One 2 1/4" dia Double Spring Improved H.F.

Area of each set of valves per boiler { per Rule 3.63 sq in x 2 = 7.26 as fitted 3.98 " " x 2 = 7.96 Pressure to which they are adjusted 150 lb. 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 well clear Is oil fuel carried in the double bottom under boilers Yes

Smallest distance between shell of boiler and tank top plating _____ 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 _____

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 _____

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

How are stays secured _____

Tube plates: Material { front back _____ Tensile strength _____ Thickness _____

Mean pitch of stay tubes in nests _____ Pitch across wide water spaces _____

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 _____

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 _____

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 _____

Main stays: Material _____ Tensile strength _____

Diameter { At body of stay, or Over threads _____ No. of threads per inch _____

Screw stays: Material _____ Tensile strength _____

Diameter { At turned off part, or Over threads _____ No. of threads per inch _____

See Manchester report No. 11097

Are the stays drilled at the outer ends

Margin stays: Diameter { At turned off part, or Over threads

No. of threads per inch

Tubes: Material

External diameter { Plain Stay

Thickness { No. of threads per inch

Pitch of tubes

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

Thickness of crown

No. and diameter

stays

Inner radius of crown

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

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

the boiler be worked separately

See 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 pressure

tubes

forgings and castings

and after assembly in place

Are drain cocks

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,

Manufacture

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

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

SEE ACCOMPANYING MACHINERY REPORT.

Total No. of visits

Is this Boiler a duplicate of a previous case

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

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

These boilers have been satisfactorily fitted on board. Safety valves adjusted under steam to 150 lbs per sq inch and found satisfactory. Safety valve compression washers. Port Boilers P. 7/16" S. 4/16" Starb Bli. P. 3/16" S.

Ed 25/7/42

Survey Fee ... £ : ✓ : ✓

When applied for, 19

Travelling Expenses (if any) £ : ✓ : ✓

When received, 19

G. E. Murdoch.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 21 JUL 1942

Assigned

SEE ACCOMPANYING MACHINERY REPORT.



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