

REPORT ON BOILERS.

No. 7503

1-MAY 1942

Received at London Office

Date of writing Report 9th APRIL 1942 When handed in at Local Office 9th APRIL 1942 Port of PLYMOUTH

No. in Survey held at PLYMOUTH Date, First Survey 8-7-41 Last Survey 25-11-1941
 Reg. Book. 28129 on the S.S. MARI II (Number of Visits 26) Gross 1395 Tons Net 811

Master ✓ Built at HARLEM By whom built N.V. WERF. COMRAD. When built 1918

Engines made at HENGELO By whom made GBR STORRY & CO When made 1918

Boilers made at DO - By whom made DO - When made 1918

Registered Horse Power 133 Owners THE MINISTRY OF WAR TRANSPORT Port belonging to GLASGOW

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record) Total Heating Surface of Boilers 1560 Is forced draft fitted No No. and Description of Boilers 2 Single Ended Working Pressure 100 LBS Tested by hydraulic pressure to 200 LBS Date of test 7-8-41

No. of Certificate ✓ Can each boiler be worked separately YES Area of fire grate in each boiler 24.4 No. and Description of safety valves to each boiler 2 - SPRING LOADED LIFT VALVES Area of each valve 10.84 Pressure to which they are adjusted 100 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 3' 4" Mean dia. of boilers 12' 4 1/16" Length 9' 10"

Material of shell plates STEEL Thickness 1 3/16 Range of tensile strength - Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D. R. Laplong. seams T. H. D. B. & S. Diameter of rivet holes in long. seams 3/24" Pitch of rivets 7/8"

Gap of plates or width of butt straps 17/8" Per centages of strength of longitudinal joint rivets Working pressure of shell by rules plate

Size of manhole in shell 15" X 11" Size of compensating ring 2' 8 1/8" X 2' 4 1/8" No. and Description of Furnaces in each boiler THREE - DEIGHTON Material STEEL Outside diameter 39 3/32" Length of plain part top Thickness of plates crown bottom

Description of longitudinal joint WELDED No. of strengthening rings ✓ Working pressure of furnace by the rules 192 LBS Combustion chamber plates: Material STEEL Thickness: Sides 21/32" Back 21/32" Top 21/32" Bottom 21/32" Pitch of stays to ditto: Sides 6 3/8" X 7/8" Back 6 3/8" X 6 3/8"

Top 6 3/8" X 7/8" If stays are fitted with nuts or riveted heads NUTS & WASHERS Working pressure by rules - Material of stays STEEL Area at smallest part -

Area supported by each stay - Working pressure by rules - End plates in steam space: Material STEEL Thickness 1 3/16"

Pitch of stays 16 3/16" X 16 3/16" How are stays secured NUTS & WASHERS Working pressure by rules - Material of stays STEEL Area at smallest part -

Area supported by each stay - Working pressure by rules - Material of Front plates at bottom STEEL Thickness 55/64" Material of STAY

Lower back plate STEEL Thickness 55/64" Greatest pitch of stays WIDE WATER 6 3/8" X 12 3/8" Working pressure of plate by rules - Diameter of tubes 2 1/4"

Pitch of tubes 3 7/16" X 3 7/16" Material of tube plates STEEL Thickness: Front 55/64" Back 55/64" Mean pitch of stays 8 1/8" X 6 3/8" Pitch across wide

water spaces 12 3/8" Working pressures by rules - Girders to Chamber tops: Material STEEL Depth and thickness of girder at centre 8 7/16" @ 1 1/16" Length as per rule - Distance apart 9 13/16" Number and pitch of Stays in each 2 @ 8 1/2"

Working pressure by rules - Steam dome: description of joint to shell ✓ % of strength of joint ✓

Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓

Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓

SUPERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to 200 LBS

Date of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓

Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

The foregoing is a correct description,

Manufacturer.

Dates of Survey ✓ During progress of work in shops - - Is the approved plan of boiler forwarded herewith NO PLANS AVAILABLE

while building ✓ During erection on board vessel - - - Total No. of visits 26

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

The Boilers of this Vessel are in an efficient condition, and eligible in my opinion to be classed in the Register Book as recommended in the Machinery Report.

Survey Fee £ Free Machy When applied for, 19

Travelling Expenses (if any) £ Report : When received, 19

Committee's Minute

TUE. 23 JUN 1942

Assigned

See Reg. No. 7503

Engineer Surveyor to Lloyd's Register of Shipping.

