

REPORT ON BOILERS.

No. 51840

Received at London Office

21 OCT 1931

17th Oct. 1931 When handed in at Local Office 17th Oct. 1931 Port of GLASGOW.

Survey held at Glasgow Date, First Survey 11th Aug 1930 Last Survey 14th Oct. 1931.

on the T.S. M.V. "CLIONA." (Number of Visits 89) Gross 8375 Tons Net 4948

Built at Glasgow By whom built Harland & Wolff Yard No. 908 G. When built 1931-10.

By whom made Do. Engine No. 908 When made 1931.

By whom made Do. Boiler No. 908 G. When made 1931.

Owners Anglo Saxon Petroleum Co Ltd Port belonging to London

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel ✓ (Letter for Record ✓)

al Heating Surface of Boilers 2404 sq. ft. Is forced draught fitted Yes Coal or Oil fired Oil.

and Description of Boilers 2 - S. E. cylindrical. Working Pressure 150 lbs./sq. in.

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

ea of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler 2 - Direct spring, Improved High Lift.

ea of each set of valves per boiler { per Rule 5.5 ins². as fitted 6.2 ins². Pressure to which they are adjusted 150 lbs./sq. in. Are they fitted with easing gear Yes

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

allest distance between boilers or uptakes and bunkers or woodwork Well clear. Is oil fuel carried in the double bottom under boilers Boilers fitted at 4 ft. clear.

allest distance between shell of boiler and tank top plating ✓ Is the bottom of the boiler insulated Yes

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

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

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

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

centage of strength of longitudinal joint { plate ✓ rivets ✓ combined ✓ Working pressure of shell by Rules ✓

ickness of butt straps { outer ✓ inner ✓ No. and Description of Furnaces in each Boiler ✓

aterial Tensile strength Smallest outside diameter ✓

egth of plain part { top ✓ bottom ✓ Thickness of plates { crown ✓ bottom ✓ Description of longitudinal joint ✓

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

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

w are stays secured Working pressure by Rules

be plates: Material { front ✓ back ✓ Tensile strength ✓ Thickness { ✓

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

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

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

each Working pressure by Rules Combustion chamber plates: Material ✓

nsile strength Thickness: Sides ✓ Back ✓ Top ✓ Bottom ✓

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

orking pressure by Rules Front plate at bottom: Material ✓ Tensile strength ✓

ickness Lower back plate: Material ✓ Tensile strength ✓ Thickness ✓

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

orking Pressure Main stays: Material ✓ Tensile strength ✓

iameter { At body of stay, ✓ No. of threads per inch ✓ Area supported by each stay ✓

orking pressure by Rules Screw stays: Material ✓ Tensile strength ✓

iameter { At turned off part, ✓ No. of threads per inch ✓ Area supported by each stay ✓

Working pressure by Rules _____ Are the stays drilled at the outer ends _____ Margin stays: Diameter { At turned off part, _____
 No. of threads per inch _____ Area supported by each stay _____ Working pressure by Rules _____
 Tubes: Material _____ External diameter { Plain _____ 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 _____
 Internal diameter _____ Working pressure by Rules _____ Thickness of crown _____ No. and diameter _____
 stays _____ Inner radius of crown _____ Working pressure by Rules _____
 How connected to shell _____ Size of dome plate under dome _____ Diameter of rivet holes and _____
 of rivets in outer row in dome connection to shell _____

Type of Superheater _____ Manufacturers of { Tubes _____
 Number of elements _____ Material of tubes _____ Steel castings _____
 Material of headers _____ Tensile strength _____ Internal diameter and thickness of tubes _____
 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 _____
 Rules _____ Pressure to which the safety valves are adjusted _____ Hydraulic test pressure _____
 tubes _____ castings _____ and after assembly in place _____ Are drain cocks or valves _____
 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, _____

Dates { During progress of _____
 of Survey { work in shops - - -
 while { SEE ACCOMPANYING MACHINERY REPORT.
 building { During erection on _____
 board vessel - - -
 Are the approved plans of boiler and superheater forwarded herewith _____
 (If not state date of approval.)
 Total No. of visits 89

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 seen in the vessel — at upper deck level forward of engine room — examined under steam and safety valves adjusted as above. They are fitted either for burning oil fuel or for utilising the exhaust gases from the main engines.*

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

Committee's Minute **GLASGOW 20 OCT 1931**
 Assigned **SEE ACCOMPANYING MACHINERY REPORT.**