

REPORT ON BOILERS.

No. 20943

Received at London Office.....

Date of writing Report 15/10/62 When handed in at Local Office..... 19..... Port of CALCUTTA.

No. in Reg. Book Survey held at CALCUTTA Date, First Survey 30/5/62 Last Survey 10/9/1962

on the STEAM TUG "AGNIJOY" (Number of Visits..... 4.....) Tons {Gross..... Net.....}

Built at CALCUTTA By whom built HOOGLY DOCKING & ENG. Co. LTD. Yard No. 4142 When built 1962

Engines made at CALCUTTA By whom made HOOGLY DOCKING & ENG. Co. LTD. Engine Nos. ME.11 ME.12 When made 1962

Boilers made at GLASGOW By whom made DAVID ROWAN & Co. LTD. Boiler No. B.623 When made 1961

MN as per Rule Owners COMMISSIONERS FOR THE PORT OF CALCUTTA Port belonging to CALCUTTA

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel COLVILLES LTD, ENGLAND.

Total Heating Surface of Boilers 2908 SQ. FT. Of Superheaters NONE

Total for Register Book Is forced draught fitted YES Coal or Oil fired OIL

No. and Description of Boilers ONE MARINE HORIZONTAL RETURN TUBE Working Pressure 200 P.S.I.

Tested by hydraulic pressure to 350 P.S.I. Date of test 28.3.61 No. of Certificate 25856 Can each boiler be worked separately ONE ONLY.

Area of Firegrate in each Boiler — No. and Description of safety valves to each boiler ONE 2 1/2" DOUBLE SPRING IMPROVED HIGH LIFT.

Area of each set of valves per boiler {per Rule 4.23 as fitted 4.9087 Pressure to which they are adjusted 200 P.S.I. Are they fitted with easing gear YES

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NONE.

Smallest distance between boilers or uptakes and bunkers or woodwork 1'9" Is oil fuel carried in the double bottom under boilers NO

Smallest distance between boilers or uptakes and bunkers or woodwork 2'9" Is the bottom of the boiler insulated YES

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

If fusion welded, state name of welding Firm Have all the requirements of the Rules for Class I vessels

When complied with 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 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

End plates: Material {front back Tensile strength Thickness

Can pitch of stay tubes in nests Pitch across wide water spaces

Ends 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 Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

No. of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

End plate at bottom: Material Tensile strength

Thickness Lower back plate: Material Tensile strength Thickness

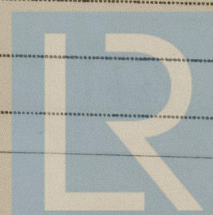
No. of stays at wide water space Are stays fitted with nuts or riveted over

End stays: Material Tensile strength

At body of stay or Over threads No. of threads per inch

End stays: Material Tensile strength

At turned off part or Over threads No. of threads per inch



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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..... Thickness { No. of threads per inch.....
Stay.....

Pitch of tubes..... Manhole compensation: Size of opening in.....

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 of.....

stays..... Inner radius of crown..... Diameter of rivet holes and pitch.....

How connected to shell..... Size of doubling plate under dome.....

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 an.....

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.....

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,.....

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

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

30/5/62; 7/6/62; 1/8/62; 10/9/62. Total No. of visits..... 4

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.).....

THE BOILER OF THIS TUG HAS BEEN INSTALLED UNDER SPECIAL SURVEY, EXAMINED UNDER STEAM
AND ITS SAFETY VALVES ADJUSTED TO THE ABOVE STATED PRESSURE.
AN ACCUMULATION TEST HAS BEEN CARRIED OUT WITH SATISFACTORY RESULTS.

Survey Fee £ : : } When applied for,.....19.....

Travelling Expenses (if any) £ : : } When received.....19.....

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute.....

Assigned..... Su Rpt 1



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