

# REPORT ON BOILERS.

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 HOOGHLY DOCKING & ENG. Co. LTD. Yard No. 4142 When built 1962

Engines made at CALCUTTA By whom made HOOGHLY 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 196

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 BOTTOM SHELL ~~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.....

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

Compliance with..... Thickness..... 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 {

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..... 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.....

Stays 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.....

Plate 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.....

Stays: Material..... Tensile strength.....

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

Over threads.....

Stays: Material..... Tensile strength.....

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

Over threads.....

PLEASE SEE GLASGOW REPORT NO 92373

Are the stays drilled at the outer ends..... Margin stays: Diameter { At turned off part,..... or Over threads.....

No. of threads per inch..... External diameter { Plain..... Stay..... Thickness { No. of threads per inch.....

Tubes: Material..... Manhole compensation: Size of opening in shell plate..... Section of compensating ring..... No. of rivets and diameter of rivet holes.....

Pitch of tubes..... Depth of flange if manhole flanged..... Steam Dome: Material.....

Outer row rivet pitch at ends..... Thickness of shell..... Description of longitudinal joint { Plate..... Rivets.....

Tensile strength..... Pitch of rivets..... Percentage of strength of joint { Plate..... Rivets.....

Diameter of rivet holes..... Thickness of crown..... No. and diameter of stays..... Inner radius of crown.....

Internal diameter..... Size of doubling plate under dome..... Diameter of rivet holes and pitch of stays.....

How connected to shell.....

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 from the boiler.....

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

{ During erection on board vessel - - - }

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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