

Rpt. 5.

REPORT ON BOILERS.

No. 24155

Port of Glasgow

Received at London Office

TUES. NOV 20 1906

No. in Reg. Book. Survey held at Aman Date, first Survey 31st May Last Survey 21st June 1906
 (Number of Visits 5)
 on the Donkey Boilers for Sandpump Dredger Tons } Gross
 } Net
 Master _____ Built at Newfrew By whom built Wm. Lindsay & Co. Ltd No. 436 When built 1906
 Engines made at _____ By whom made _____ when made _____
 Boilers made at _____ By whom made _____ when made _____
 Registered 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 draft fitted _____ No. and Description of Boilers _____ Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____
 No. of Certificate _____ Can each boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of safety valves to each boiler _____ Area of each valve _____ Pressure to which they are adjusted _____
 Are they fitted with easing gear _____ 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 _____ Mean dia. of boilers _____ Length _____
 Material of shell plates _____ Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____
 Descrip. of riveting: cir. seams _____ long. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____
 Lap of plates or width of butt straps _____ Per centages of strength of longitudinal joint _____ Working pressure of shell by rules _____ Size of manhole in shell _____ Size of compensating ring _____ No. and Description of Furnaces in each boiler _____ Material _____ Outside diameter _____ Length of plain part _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____ Working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____ Pitch of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____ Material of stays _____ Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: Material _____ Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____ Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____ Thickness _____ Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____ Diameter of tubes _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____ Pitch across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of Stays in each _____ Working pressure by rules _____ Superheater or Steam chest; how connected to boiler _____ Can the superheater be shut off and the boiler worked separately _____ Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____ Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____ If stiffened with rings _____ Distance between rings _____ Working pressure by rules _____ End plates: Thickness _____ How stayed _____ Working pressure of end plates _____ Area of safety valves to superheater _____ Are they fitted with easing gear _____

VERTICAL DONKEY BOILER— No. 10323 Description Low Lub Manufacturers of steel Glydebridge Coy

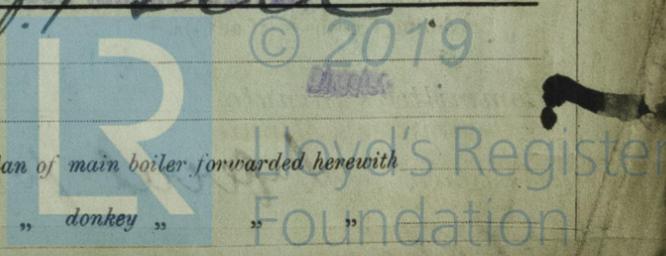
Made at Aman By whom made Boehrer & Co. Ltd When made 1906 Where fixed _____ Working pressure 180 lb.
 tested by hydraulic pressure to 200 lb. Date of test 21/6/06 No. of Certificate 8140 fire grate area _____ Description of safety valves _____
 No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler 4' 6" Length 10' 6" Material of shell plates Steel Thickness 13/32 Range of tensile strength 24/32 tons Descrip. of riveting long. seams Double rivet Dia. of rivet holes 3/8" Whether punched or drilled Drilled Pitch of rivets 2 1/2"
 Lap of plating 3 3/8" Per centage of strength of joint _____ Rivets 4/40 Plates 40/0 Working pressure of shell by rules 113 lb. Thickness of shell crown plates 9/16"
 Radius of do. 4' 9" No. of Stays to do. none Dia. of stays _____ Diameter of furnace Top 3' 4" Bottom 3' 9" Length of furnace 4' 8"
 Thickness of furnace plates 9/16" Description of joint riveted Working pressure of furnace by rules 135 lb. Thickness of furnace crown plates 9/16" Radius of do. 4' 9" Stayed by none Diameter of uptake 13" ex. Thickness of uptake plates 7/16"
 Thickness of water tubes 3/8"

The foregoing is a correct description, _____ Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1906: May 31, June 5, 8, 15, 21
 { During erection on board vessel - - - }
 Total No. of visits 5

Is the approved plan of main boiler forwarded herewith _____ " " " donkey " " _____

If not, state whether, and when, one will be sent? Is a Report also sent on the Hull of the Ship?



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

This Boiler has been made under survey, the materials & workmanship are of good description and the hydraulic pressure proved satisfactory.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	:	:	19
Donkey Boiler Fee ...	£	2	2	When required.
Travelling Expenses (if any) £	:	:	:	19

Glasgow - 2 JUL 1908

James Hollison
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Clyde District



Lloyd's Register
Foundation

Committee's Minute

Assigned *Deferred for completion.*

Retain-