

REPORT ON BOILERS.

No. 284

Received at London Office

FRI. 13 AUG 1909

Date of writing Report Aug 4 1909 When handed in at Local Office Aug 4 1909 Port of NEWPORT NEWS, VA.
 No. in Survey held at NEWPORT NEWS Date, First Survey DEC 9th 08 Last Survey Aug 3 1909
 Reg. Book. 3 on the STEEL SS "JEAN" (Number of Visits 61) Gross 3125.98 Tons Net 2391.48
 Master H. McDONALD Built at NEWPORT NEWS By whom built NEWPORT NEWS S+II CO When built 1909.6
 Engines made at NEWPORT NEWS By whom made NEWPORT NEWS S+II CO when made 1909
 Boilers made at " By whom made " when made 1909
 Registered Horse Power 241. Owners A. H. BULL S+II CO Port belonging to NEW YORK.

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel NORTH BROS. IA.
 (Letter for record S.) Total Heating Surface of Boilers 760 sq Is forced draft fitted No No. and Description of Boilers ONE S. E. MULTITUBULAR Working Pressure 90 Tested by hydraulic pressure to 180 Date of test 19.5.09.
 No. of Certificate 36 Can each boiler be worked separately ✓ Area of fire grate in each boiler 26 sq No. and Description of safety valves to each boiler ONE SPRING-LOAD Area of each valve 12.56 sq Pressure to which they are adjusted 90
 Are they fitted with easing gear YES In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No
 Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 9' 0" Length 10' 0"
 Material of shell plates S. Thickness 3/32 Range of tensile strength 28-32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams LAP SP. long. seams DBS dr. Diameter of rivet holes in long. seams 15/16" Pitch of rivets 4 5/8"
 Lap of plates or width of butt straps 9 3/4 Per centages of strength of longitudinal joint rivets 142 Working pressure of shell by rules 90 Size of manhole in shell 12" x 16" Size of compensating ring 26" x 30" No. and Description of Furnaces in each boiler 1. Morrison Material S Outside diameter 55 13/16" Length of plain part top ✓ Thickness of plates crown 13/32" bottom 1/32"
 Description of longitudinal joint WELD No. of strengthening rings ✓ Working pressure of furnace by the rules 101 Combustion chamber plates: Material S Thickness: Sides 7/16" Back 7/16" Top 7/16" Bottom 7/16" Pitch of stays to ditto: Sides 6x7 Back 7x7 Top 6x7 If stays are fitted with nuts or riveted heads NUTS Working pressure by rules 110 Material of stays IRON Diameter at smallest part 1 1/8" Area supported by each stay 49" Working pressure by rules 99 End plates in steam space: Material S Thickness 5/8" Pitch of stays 14x12 How are stays secured DN Working pressure by rules 124 Material of stays IRON Diameter at smallest part 2" Area supported by each stay 168 Working pressure by rules 140 Material of Front plates at bottom S Thickness 5/8" Material of Lower back plate S Thickness 5/8" Greatest pitch of stays 7" x 7" Working pressure of plate by rules 110 Diameter of tubes 3" Pitch of tubes 4" x 4 1/8" Material of tube plates S Thickness: Front 5/8" Back 5/8" Mean pitch of stays 8" x 8 1/4" Pitch across wide water spaces 13" Working pressures by rules 137 Girders to Chamber tops: Material IRON Depth and thickness of girder at centre 6" x 1 1/4" Length as per rule 25" Distance apart 7" Number and pitch of Stays in each 3" x 6" Working pressure by rules 122 Superheater or Steam chest; how connected to boiler NONE 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. ✓ Description _____ Manufacturers of steel _____
 Made at _____ By whom made _____ When made _____ Where fixed _____ Working pressure _____
 Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ 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 _____ Length _____ Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____ Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
 Lap of plating _____ Per centage of strength of joint Rivets _____ Plates _____ Working pressure of shell by rules _____ Thickness of shell crown plates _____
 Radius of do. _____ No. of Stays to do. _____ Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____
 Thickness of furnace plates _____ Description of joint _____ Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Radius of do. _____ Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____
 Thickness of water tubes _____

The foregoing is a correct description,
NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.
W. J. ... Manufacturer.
... General Manager

Dates of Survey while building: During progress of work in shops -- DEC. 9. 15. 18. 19. 28. JAN. 7. 8. 21. 25 FEB. 1. 3. 4. 5. 10. 16. MAR. 3. 4. 8. 10. 11. 12. 16. 19. 22. 26. 29. 30
 During erection on board vessel -- APRIL. 2. 7. 15. 14. 19. 24. 27. MAY. 4. 7. 8. 11. 14. 19. 21. 25. 26. 27. JUNE. 8. 19.
 Total No. of visits 61. Is the approved plan of main boiler forwarded herewith YES
 " " " donkey " " YES



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

The boiler has been built under Special Survey in accordance with the approved plan -
 The workmanship and materials all good - rendering the vessel eligible, in my opinion, to have the notation I.B. 90 lbs

Certificate (if required) to be sent to
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

John A. Marsden
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

111. 3 SEP 1909

Assigned

see minute on

attached report h. no 284



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