

REPORT ON BOILERS.

No. 6185

Date of writing Report 10 July 1922 When handed in at Local Office 191 Port of Devonport
 No. in Survey held at Devonport Date, First Survey 23 Mar 1921 Last Survey 4 July 1922
 Reg. Book. on the Steel Donkey Boiler for the Steel S.S. "Nassa" (Number of Visits 18)
 Master ✓ Built at Devonport By whom built E.M. Dept of A.M. Dockyard When built 1922-7
 Engines made at Devonport By whom made E.M. Dept of A.M. Dockyard When made 1922
 Boilers made at Devonport By whom made Do Do When made 1922
 Registered Horse Power 2800 Owners Anglo Saxon Petroleum Co Port belonging to London
 Tons } Gross 5825.39
 Net 3342.25

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spencer & Sons - Newcastle
 (Letter for record ✓) Total Heating Surface of Boilers 1203.5 Is forced draft fitted No No. and Description of

Boilers One - Cylindrical Return Tube Working Pressure 120 lb Tested by hydraulic pressure to 230 lb Date of test 19-10-21

No. of Certificate 205 Can each boiler be worked separately ✓ Area of fire grate in each boiler 33 No. and Description of safety valves to each boiler 2 in Dia in One 3 in Dia S.L. Area of each valve 7.07 Pressure to which they are adjusted 120 lb

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 1-9" Mean dia. of boilers 11-0" Length 10-3"

Material of shell plates Steel Thickness 3/4" Range of tensile strength 28-32 Are the shell plates welded or flanged Flanged

Descrip. of riveting: cir. seams Double 3/4 long, seams Double 3/4 long Diameter of rivet holes in long. seams 15/16 Pitch of rivets 6-1/16

Lap of plates or width of butt straps 12 7/8" Per centages of strength of longitudinal joint rivets 101.84 Working pressure of shell by rules 143.4 Size of manhole in shell 16" x 12" plate 84.53

No. and Description of Furnaces in each boiler 2 Morrison Pat Material Steel Outside diameter 3-5 5/8" Length of plain part top Thickness of plates crown bottom 9/16"

Description of longitudinal joint ✓ No. of strengthening rings ✓ Working pressure of furnace by the rules 210.6 Combustion chamber plates: Material Steel Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 1/16" Pitch of stays to ditto: Sides 7 3/8 x 8" Back 7 3/4 x 7 5/8"

Top 8 x 8" If stays are fitted with nuts or riveted heads Nuts at top Working pressure by rules 140.8 Material of stays Steel Area at smallest part 9.6 Area supported by each stay 59.1 Working pressure by rules 188.4 End plates in steam space: Material Steel Thickness 13/16"

Pitch of stays 5 3/4 x 15" How are stays secured Double Nuts Working pressure by rules 160.8 Material of stays Steel Area at smallest part 355

Area supported by each stay 237 Working pressure by rules 126.8 Material of Front plates at bottom Steel Thickness 13/16" Material of Lower back plate Steel Thickness 13/16" Greatest pitch of stays 13 1/2 x 7 5/8" Working pressure of plate by rules 223 Diameter of tubes 2 3/4

Pitch of tubes 4 x 3 7/8" Material of tube plates Steel Thickness: Front 13/16" Back 1/16" Mean pitch of stays 9" Pitch across wide water spaces 13 5/8" Working pressures by rules 163 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 1/2 x 5/8" (2) Length as per rule 2-6" Distance apart 8" Number and pitch of Stays in each 3-8"

Working pressure by rules 158.2 Steam dome: description of joint to shell ✓ % of strength of joint ✓

Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓

Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓

SUPERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓

Date of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓

Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

The foregoing is a correct description,
G. W. Atkinson Manufacturer.
 MANAGER, ENGINEERING DEPT.

Dates of Survey } During progress of 1921 Mar 23-31 April 4-6-22-26 May 11-19 Oct 19 Is the approved plan of boiler forwarded herewith ✓
 while building } During erection on board vessel 1922 April 11-26 May 11-31 June 14-24-26-29 July 4 Total No. of visits 18

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler was surveyed in course of construction in accordance with the approved drawings and the Secretary's letters and in general conformity with the Rules. The workmanship is very good and the Boiler in all respects is, in my opinion, efficient and eligible to be classed with this Society.

Survey Fee ... £ 21 : 8 : 6 When applied for, 28/7/1922 from London.
 Travelling Expenses (if any) £ 1 : 1 When received, 5/9/22 in London.

Committee's Minute FRI JUL 28 1922 Assigned FRI JAN 12 1923
FRI 26 JAN 1923
TUE MAR 6 1923
 Engineer Jas Colarg Lloyd's Register of Shipping.
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