

REPORT ON BOILERS.

No. 6185

Date of writing Report 10 July 1922 When handed in at Local Office

Received at London Office

TUE. 25 JUL. 1922

191

Port of

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)

Gross

5825.39

Tons

Net 3342.25

Master Built at Devonport By whom built C.M. Dept of H.M. Dockyard When built 1922-7
 Engines made at Devonport By whom made E.M. Dept of H.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

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 sq ft No. and Description of

safety valves to each boiler 2 in 1 in 1 in 3 in 3 in 3 in Area of each valve 7.07 sq in Pressure to which they are adjusted 120 lb per sq in

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"-7/16

Top of plates on width of butt straps 12 7/8 Per centages of strength of longitudinal joint rivets 101.84 plate 84.53 Working pressure of shell by

rules 143.4 lb Size of manhole in shell 16" x 12" Size of compensating ring 2'-6" x 2'-2" No. and Description of Furnaces in each

boiler 2 in 1 in 1 in Material Steel Outside diameter 3'-5 5/8" Length of plain part top Thickness of plates crown 9 1/16" bottom 9 1/16"

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 3/8

Top 8 x 8 1/2 If stays are fitted with nuts or riveted heads Nuts at top Working pressure by rules 140 lb Material of stays Steel Area at

smallest part 96 sq in Area supported by each stay 59.1 sq in Working pressure by rules 188 lb 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 sq in

Area supported by each stay 237 sq in 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 sq in

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 lb per sq in 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

MANAGER, ENGINEERING DEPT.

Manufacturer.

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 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 drawing 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 placed with this Society.

Survey Fee ... £ 21 : 8 : 6 When applied for, 28/7/22 from London.

Travelling Expenses (if any) £ : : 1 When received, 5/9/22 from London.

FRI JUL 28 1922

FRI JAN. 12 1923

FRI. 26 JAN. 1923

TUE MAR. 6 1923

Committee's Minute

Assigned

Engineer Surveyors to Lloyd's Register of Shipping.

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