

REPORT ON BOILERS.

Hull RPL No. 32207

No. 11502

Received at London Office

MON. APR. 19 1920

Date of writing Report 16 Apr 1920 When handed in at Local Office 17 Apr 1920

Port of Grimsby Date, First Survey 20 Dec 1919 East Survey 16 April 1920

No. in Survey held at Lincoln

Reg. Book. S.S. "INVERTYNE"

on the

By whom built Henry Scarr & Co

When built 1920

Engines made at

By whom made

When made

Boilers made at Lincoln

By whom made Ruston & Hornsby & Co

When made 1920

Registered Horse Power

Owners British Mexican Pet Co.

Port belonging to London.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Stewart & Lloyd Beardmore

Letter for record S Total Heating Surface of Boilers 814 sq ft Is forced draft fitted No

Boilers One Single End Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 16.4.20

No. of Certificate 191 Can each boiler be worked separately Area of fire grate in each boiler 30.5 sq ft No. and Description of

safety valves to each boiler Two spring loaded Area of each valve 3.98 sq ft Pressure to which they are adjusted 185 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers 3'-0" Mean dia. of boilers 10'-0" Length 9'-6"

Material of shell plates Steel Thickness 3/32 Range of tensile strength 28-32 lbs are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DTP Lap long. seams D.B.S. T.R. Diameter of rivet holes in long. seams 15/16 Pitch of rivets 7"

Top of plates or width of butt straps 13 3/4" Per centages of strength of longitudinal joint rivets 86.9 plate 86.6 Working pressure of shell by

rules 182 lbs Size of manhole in shell 16" x 12" Size of compensating ring 6 1/2" x 27/32" No. and Description of Furnaces in each

boiler Two plain Material Steel Outside diameter 3'-2" Length of plain part top 6'-0 3/4" Thickness of plates crown 11/16 bottom 1/16

Description of longitudinal joint Weld No. of strengthening rings hel Working pressure of furnace by the rules 180 lbs Combustion chamber

plates: Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 9/16 Pitch of stays to ditto: Sides 8 x 7/4 Back 8 x 7/2

Top 8 x 7 If stays are fitted with nuts or riveted heads huts Working pressure by rules 182 lbs Material of stays Steel Area at

smallest part 1.5 Area supported by each stay 60 sq Working pressure by rules 225 End plates in steam space: Material Steel Thickness 7/8

Pitch of stays 4 x 14 How are stays secured DN + N Working pressure by rules 185 Material of stays Steel Area at smallest part 3.43 sq

Area supported by each stay 196 sq Working pressure by rules 182 lbs Material of front plates at bottom Steel Thickness 7/8 Material of

Lower back plate Steel Thickness 7/8 Greatest pitch of stays 13 1/4 x 7 1/2 Working pressure of plate by rules 230 lbs Diameter of tubes 3 1/4"

Pitch of tubes 4 1/4 x 4 3/8 Material of tube plates Steel Thickness: Front 8 Back 11/16 Mean pitch of stays 9.7" Pitch across wide

water spaces 13 1/4" Working pressures by rules 288 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 8" x 18" Length as per rule 28 1/2" Distance apart 7" Number and pitch of Stays in each 2 @ 8"

Working pressure by rules 190 lbs Steam dome: description of joint to shell hel % 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

UPERHEATER. 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, Ruston & Hornsby & Co. Manufacturer.

Dates During progress of 1919 Dec 20 1920 Jan 13.27 Feb 13.27 work in shops - - - Mar 12.31. Apr 16

Is the approved plan of boiler forwarded herewith Standard 8 in Shops

Total No. of visits

GENERAL REMARKS

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

This boiler has been constructed under special survey in accordance with the requirements of the Society's Rules & the approved plan, the workmanship & materials are good & the boiler has found sound & tight under water pressure. This boiler is eligible for fitting on board a vessel cleared with the Society.

Survey Fee ... £ 2 : 14 : -

When applied for, 17 April 1920

Travelling Expenses (if any) £ 1 : 14 : 6

When received, 30/6/20

The boiler has been satisfactorily fitted & cleared in the vessel for notation re machinery report

J. J. Stoddart & Co. Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. OCT. 26 1920

Assigned