

REPORT ON BOILERS.

No. 14659.

Received at London Office

FRI. MAY 30 1913

Date of writing Report 29 May 1913 When handed in at Local Office 26 May 1913 Port of West Hartlepool
 No. in Survey held at West Hartlepool Date, First Survey 8th January, 1912 Last Survey 24 May 1913
 Reg. Book. on the Steel Steamer Pensilva (Number of Visits 31) } Gross 4316
 } Net 2716
 Master Built at West Hartlepool By whom built W Gray & Co When built 1913
 Engines made at West Hartlepool By whom made Central Marine & Works When made 1913
 Boilers made at West Hartlepool By whom made Central Marine & Works When made 1913
 Registered Horse Power Owners Pensilva O. O. Co. Ltd Port belonging to Falmouth

Control & Survey

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D Colville & Son
 (Letter for record S) Total Heating Surface of Boilers 846 sq ft Is forced draft fitted no No. and Description of Boilers one single ended Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 19/4/13
 No. of Certificate 3322 Can each boiler be worked separately - Area of fire grate in each boiler 29 sq ft No. and Description of safety valves to each boiler Two Spring Area of each valve 8.26 sq Pressure to which they are adjusted 104 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 17" Mean dia. of boilers 11'0" Length 10'0"
 Material of shell plates steel Thickness 2 1/32" Range of tensile strength 26/30 Are the shell plates welded or flanged both
 Descrip. of riveting: cir. seams - long. seams all chip all diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 3 9/16"
 Lap of plates or width of butt straps 10" Per centages of strength of longitudinal joint rivets 76.4 % Working pressure of shell by rules 100 lb plate 75.4 %
 Size of manhole in shell 16" x 12" Size of compensating ring 30" x 26" x 1 1/16" No. and Description of Furnaces in each boiler Two Plain Material steel Outside diameter 40 1/2" Length of plain part 73.5 Thickness of plates 17/32"
 Description of longitudinal joint welded No. of strengthening rings - Working pressure of furnace by the rules 101 lb Combustion chamber plates: Material steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 10/16" Pitch of stays to ditto: Sides 9'8 1/2" Back 8'4 1/2"
 Top 9'8 1/2" If stays are fitted with nuts or riveted heads no Working pressure by rules 100 lb Material of stays steel Diameter at smallest part 1.13 Area supported by each stay 9'8 1/2" Working pressure by rules 105 lb End plates in steam space: Material steel Thickness 1 1/16"
 Pitch of stays 16'15 1/2" How are stays secured all nut Working pressure by rules 101 lb Material of stays steel Diameter at smallest part 1.786
 Area supported by each stay 16'15 1/2" Working pressure by rules 105 lb Material of Front plates at bottom steel Thickness 1 1/16" Material of Lower back plate steel Thickness 1 1/16" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 100 lb Diameter of tubes 3 1/2"
 Pitch of tubes 4 1/2" Material of tube plates steel Thickness: Front 1 1/16" Back 10/16" Mean pitch of stays 13'2'9" Pitch across wide water spaces 14 1/4" Working pressures by rules 106 lb Girders to Chamber tops: Material steel Depth and thickness of girder at centre 6 1/2" x 1 1/4" Length as per rule 28' Distance apart 8 1/4" Number and pitch of Stays in each two 9'
 Working pressure by rules 115 lb 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

The foregoing is a correct description,
 FOR THE USE OF THE REGISTER, of the
 (W. Gray & Co. Ltd.)
 Manufacturer.

Dates of Survey } During progress of work in shops - - } Jan 8-9-10-13-14-15-17-27 Mar. 4-6-7-11-12-13-14-17-27. Is the approved plan of boiler forwarded to the Register? yes Returned 30/5/13
 while building } During erection on board vessel - - } 31. Apr. 3-4-7-8-9-10-11-15-16-17-19 May. 22-24. Total No. of visits 31.

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

This Donkey Boiler has been constructed under special licence in accordance with the approved Trade Patent, tested by hydraulic pressure and found good. It has now been efficiently fitted in place.

Survey Fee ... £ 2 : 2 : } When applied for, 29 May 1913
 Travelling Expenses (if any) £ : : } When received, 1913

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

Committee's Minute TUE. JUN. -3. 1913

Assigned See Minute on
the Rpt 14659 attached

