

## REPORT ON BOILERS.

No. 14140

Received at London Office

Date of writing Report 12 April 1911 When handed in at Local Office 18 April 1911 Port of West Hartlepool

No. in Survey held at West Hartlepool

Date, First Survey 16<sup>th</sup> Dec. 1910 Last Survey 13 April 1911

Reg. Book.

on the

Steel Steamer "Hans B"

(Number of Visits 41) Gross Tons Net

Master

Built at West Hartlepool

By whom built

W Gray &amp; Co Ltd

When built 1911

Engines made at West Hartlepool

By whom made

Central Marine &amp; Water when made 1911

Boilers made at West Hartlepool

By whom made

Central Marine &amp; Water when made 1911

Registered Horse Power

Owners

Port belonging to Bergen

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer &amp; Son

(Letter for record S) Total Heating Surface of Boilers 8446 sq ft Is forced draft fitted in No. and Description of

Boilers Single Ended Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 9/2/11.

No. of Certificate 1225 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 1 in opening Area of each valve 7.07 Pressure to which they are adjusted 105 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 20 Mean dia. of boilers 11.0 Length 10.0

Material of shell plates Steel Thickness 2 1/2 Range of tensile strength 26-30 Are the shell plates welded or flanged both

Descrip. of riveting: cir. seams long. seams All chip and Diameter of rivet holes in long. seams 1 1/2 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 Size of manhole in shell 16.12 Size of compensating ring 30.26.12/16 No. and Description of Furnaces in each

boiler 1 in Main Material Steel Outside diameter 40 1/2 Length of plain part top 6.1 1/2 Thickness of plates crown 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 both Working pressure by rules 112 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 12/16

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 12/16 Material of

Lower back plate Steel Thickness 12/16 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 12/16 Back 10/16 Mean pitch of stays 13 1/2.9 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 1/2.1 1/4 Length as per rule 28 1/2 Distance apart 8 1/2 Number and pitch of Stays in each 4 in 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

FOR THE CENTRAL MARINE ENGINE WORKS.

(W. GRAY &amp; Co., Ltd.)

The foregoing is a correct description,

John Williams

Manufacturer.

Dates of Survey During progress of work in shops - - - Nov. 16, 17, 22, 24, 26, 28, 29, 30, Dec. 1, 5, 8, 9, 12, 13, 14, 15, 16, 19, 20, 23 Is the approved plan of boiler forwarded herewith ☒

while building During erection on board vessel - - - Jan. 4, 5, 6, 9, 10, 12, 13, 16, 20, 23, 24, 25, 26, 27, 30, 31, Feb. 1, 2, 8, 9, 15. Assistant Manager. Total No. of visits 41

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

This Donkey Boiler has been constructed under special survey in accordance with the approved Photo Print tested by hydraulic pressure and has efficiently fitted on board the above steamer.

Survey Fee ... £ 2 : 2 : When applied for, 19. 4. 19. 11

Travelling Expenses (if any) £ : : When received, 19. 4. 19. 11

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

Committee's Minute FRI. 21 APR 1911

Assigned to Minute on Hpl Rpt

14140 attached

015316-015324-0153

Lloyd's Register Foundation