

Rpt. 5a.

REPORT ON BOILERS.

No. 15894

Received at London Office

FRI. 4 JUL. 1921

Date of writing Report 25th June 1921 When handed in at Local Office 29th June 1921 Port of WEST HARTLEPOOL

No. in Survey held at West Hartlepool Date, First Survey 24th Sept. 1920. Last Survey 15th Dec. 1921
Reg. Book. on the Main Boiler No R 304. to order of Jos. de Poorter.

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at West Hartlepool By whom made Central Marine Engine Works Ltd When made 1920

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel J Spencer & Sons

(Letter for record S.) Total Heating Surface of Boilers 1934 sq ft Is forced draft fitted No. and Description of

Boilers One single ended Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 15.2.20

No. of Certificate 3594 Can each boiler be worked separately Area of fire grate in each boiler 56.5 sq ft No. and Description of

safety valves to each boiler 2 spring loaded Area of each valve 16.5 sq ft Pressure to which they are adjusted 165

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

Smallest distance between boilers or uptakes and bunkers 12" Internal dia. of boilers 14'-9" Length 10'-0"

Material of shell plates Steel Thickness 1 1/4" Range of tensile strength 27/30 Are the shell plates welded or flanged yes

Descrip. of riveting: cir. seams D.R. Lap. long. seams I.R. D.B.S. Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9"

Lap of plates or width of butt straps 19 3/4" Per centages of strength of longitudinal joint rivets 89.5 Working pressure of shell by

rules 184 Size of manhole in shell 12"x16" Size of compensating ring 2'-4"x2'-8" No. and Description of Furnaces in each

boiler 3 Deightons Material Steel Outside diameter 3'-10 5/8" Length of plain part top 9" Thickness of plates crown 9" bottom 7 1/2"

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 191 Combustion chamber

plates: Material Steel Thickness: Sides 4 1/8" Back 1 1/8" Top 1 1/8" Bottom 1 1/8" Pitch of stays to ditto: Sides 9"x9 3/8" Back 9"x9 3/8"

Top 9"x9 3/8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 183 Material of stays Steel Diameter at

smallest part 1.79" Area supported by each stay 9"x9 3/8" Working pressure by rules 181 End plates in steam space: Material Steel Thickness 1 3/32"

Pitch of stays 19"x20" How are stays secured D nuts Working pressure by rules 185 Material of stays Steel Diameter at smallest part 6.65"

Area supported by each stay 19"x20" Working pressure by rules 182 Material of Front plates at bottom Steel Thickness 1" Material of

Lower back plate Steel Thickness 1 5/16" Greatest pitch of stays 14 1/4"x9 3/8" Working pressure of plate by rules 202 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2"x4 1/2" Material of tube plates Steel Thickness: Front 1" Back 1 1/8" Mean pitch of stays 9"x9" Pitch across wide

water spaces 14 1/4" Working pressures by rules 189 Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 8 3/8"x1 1/4" Length as per rule 27 5/8" Distance apart 9 3/8" Number and pitch of Stays in each Two 9"

Working pressure by rules 183 Superheater or Steam chest: how connected to boiler none 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. The foregoing is a correct description,

(W. Gray & Co. (1910) Ltd.) John H. James Manufacturer.

DIRECTOR.

Dates of Survey During progress of 1920. Sept. 24. Oct. 11. Dec. 22. 30. 1921 Jan. 15. 19. 20. 21 Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel --- Total No. of visits 17.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built

under Special Survey. The materials and workmanship are good.

It is still at this port awaiting delivery

Survey Fee ... £ 6 : 9 : When applied for, 29/6/1921

Travelling Expenses (if any) £ : : When received, 12.7.21

Committee's Minute

Assigned Not for Cassing Committee

THE 25 MAR. 1924

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

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Foundation

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