

REPORT ON BOILERS.

No. 15895

pt. 5a.

Received at London Office

JUN 13 1921

Date of writing Report 25th June 1921 When handed in at Local Office 29th June 1921 Port ofNo. in Survey held at West Hartlepool Date, First Survey 27th Oct. 1919 Last Survey 19th Mar. 1920
eg. Book. on the Main Boiler No. R 296. SH. Sc. Sr. "NORTHGATE" (Number of Visits 28) Gross Tons NetBuilt at Lowestoft By whom built W. G. Brooke & Co When built
Engines made at Newcastle By whom made Shields Engineering Co 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 1468 ft² Is forced draft fitted No. No. and Description of
Boilers One, single ended Working Pressure 130 lb Tested by hydraulic pressure to 260 lb Date of test 19.3.20
of Certificate 3566 Can each boiler be worked separately Area of fire grate in each boiler 44.3 ft² No. and Description of
Safety valves to each boiler Two. 2 3/4" spring loaded Area of each valve 5.939 sq" Pressure to which they are adjusted 133 lb sq"
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 or uptakes and bunkers or woodwork 4'-3" Mean dia. of boilers 13'-3" Length 10'-0"
Material of shell plates Steel Thickness 27/32 Range of tensile strength 27/30 Are the shell plates welded or flanged Yes
Grip. of riveting: cir. seams S.R. Lap long. seams J.R. D.B.S. Diameter of rivet holes in long. seams 15/16 Pitch of rivets 6 5/8
of plates or width of butt straps 14" Per centages of strength of longitudinal joint rivets 92 Working pressure of shell by
133 Size of manhole in shell 12" x 16" Size of compensating ring 2'-3 1/2" x 2'-7 1/2" No. and Description of Furnaces in each
3 Deightons Material Steel Outside diameter 3'-3 3/4" Length of plain part top Thickness of plates crown 13" bottom 32"
Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 143 Combustion chamber
Material Steel Thickness: Sides 5/8 Back 9/16 Centre Top 5/8 Bottom 5/8 Pitch of stays to ditto: Sides 10" x 10" Back 9" x 10"
10" x 10" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 134 Material of stays Steel Diameter at
smallest part 1 5/16" Area supported by each stay 10" x 9" Working pressure by rules 133 End plates in steam space: Material Steel Thickness 15/16
of stays 16 1/4" x 18" How are stays secured D. nuts Working pressure by rules 134 Material of stays Steel Diameter at smallest part 3 6/7"
supported by each stay 16 1/4" x 18" Working pressure by rules 130 Material of Front plates at bottom Steel Thickness 27/32 Material of
Back plate Steel Thickness 3/4 Greatest pitch of stays 14" x 10" Working pressure of plate by rules 131 Diameter of tubes 3 1/4"
of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 27/32 Back 11/16 Mean pitch of stays 11 1/4" Pitch across wide
spaces 14 1/4" Working pressures by rules 134 Girders to Chamber tops: Material Steel Depth and thickness of
at centre 7 1/8" x 1 1/4" Length as per rule 28" Distance apart 10" Number and pitch of Stays in each Two 10"
Working pressure by rules 134 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
Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
Fitted 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 & Co. (1918)) The foregoing is a correct description,

John H. Seay

Manufacturer.

DIRECTOR.

During progress of 1919 Oct. 27, 29, 30. Nov. 10, 19. Dec. 9, 11, 22, 23, 30, 1920 Jan. 27 Is the approved plan of boiler forwarded herewith Yes
work in shops - - - 28, 30. Feb. 2, 3, 11, 13, 16, 17, 27. Mar. 4, 5, 8, 10, 12, 15, 19
During erection on board vessel - - - Total No. of visits 28

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. On completion it satisfactorily withstood the hydraulic test. It is at this port awaiting delivery.

Survey Fee ... £ 4 : 18 : When applied for, 29/6/21
Travelling Expenses (if any) £ : : When received, 12/7/21

R. D. Shilstone & J. R. Morrison
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

WED. 3 JUN 1925

Signed

See Nwc 79247



Lloyd's Register Foundation

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