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REPORT ON BOILERS.

No. 37979

Received at London Office WED. JULY 24. 1918

Writing Report 16th July 1918 REC'D NEW YORK 12-19-18 When handed in at Local Office 101 Port of Glasgow
 in Survey held at Glasgow Date, First Survey 28-11-17 Last Survey 9th July 1918
 Book. on the Howden Patent Boiler No. 192 for Imperial Munitions Board of Canada (Number of Visits 32) Gross Tons 1 Net Tons 1
 Built at _____ By whom built _____ When built _____
 es made at _____ By whom made _____ When made _____
 ars made at Glasgow By whom made The Howden Boiler & Armaments Co. Ltd. When made 1918
 uted Horse Power _____ Owners Imperial Munitions Board of Canada Port belonging to _____

WATER TUBE BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel L. Colville & Sons Ltd.
 er for record (S) _____ Total Heating Surface of Boilers 2640 sq. ft. Is forced draft fitted Yes No. and Description of
 ers One Howden Patent Water Tube Boiler Working Pressure 185 lbs. Tested by hydraulic pressure to 370 lbs. Date of test 21-6-18
 of Certificate 14353 Can each boiler be worked separately one Area of fire grate in each boiler 60 sq. ft. No. and Description of
 y valves to each boiler _____ Area of each valve _____ Pressure to which they are adjusted _____
 they fitted with easing gear _____ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler _____ S.D. 11'-6 3/4"
 llest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers 36 7/8" Length 9'-1" S.D. 11'-6 3/4"
 erial of shell plates S Thickness 3/16" Range of tensile strength W.D. 29/30 Are the shell plates welded or flanged No S.D. 2.56
 rip. of riveting: cir. seams Long Riv. Lap long. seams Double Riv. Lap Diameter of rivet holes in long. seams 7/8" Pitch of rivets W.D. 2.65
 of plates on width of butt straps 4 3/16" Per centages of strength of longitudinal joint _____ Working pressure of shell by
 s 228 lbs. Size of manhole in shell 16" x 12" Size of compensating ring Flanged No. and Description of Furnaces in each
 er _____ Material _____ Outside diameter _____ Length of plain part _____ Thickness of plates _____
 cription of longitudinal joint _____ No. of strengthening rings _____ Working pressure of furnace by the rules _____
 TEAM. DRUM. _____ Material S Thickness: Sides _____ Back _____ Top _____ Bottom _____ Pitch of stays to ditto: Sides _____ Back _____
 If stays are fitted with nuts or riveted heads Riv. Heads Working pressure by rules 185 lbs. Material of stays Steel Area at
 llest part 1.01 sq. in. Area supported by each stay 0.5 sq. in. Working pressure by rules 200 lbs. End plates in steam space: Material S Thickness 7/8" & 3/4"
 ch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____ Area at smallest part _____
 Farh _____ supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____ Thickness _____ Material of
 500 _____ ver back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____ Diameter of tubes 2" O.D.
 ch of tubes 2 3/8" Material of tube plates S Thickness: Front 1 3/8" Back 1 3/8" Mean pitch of stays _____ Pitch across wide
 er spaces _____ Working pressures by rules 185 lbs. appd. Girders to Chamber tops: Material S Depth and thickness of
 er at centre 6 1/4" x 2 1/4" Length as per rule 33" Distance apart 6" Number and pitch of Stays in each 4 at 6 3/4"
 rking pressure by rules 200 lbs. Steam dome: description of joint to shell Forged & Flanged Neck % of strength of joint _____
 meter 30" Thickness of shell plates 7/16" Material S Description of longitudinal joint RR Lap Diam. of rivet holes 13/16"
 ch of rivets 2 1/2" Working pressure of shell by rules 228 lbs. Crown plates _____ Thickness _____ How stayed _____
SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 eering of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 eering _____ meter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

The foregoing is a correct description,

Manufacturer.

Dates _____ During progress of _____ 1917: Nov. 28, 30. Dec. 10, 14, 24, 26, 1918: Jan. 7, 10 _____ Is the approved plan of boiler forwarded herewith Yes
 Survey _____ work in shops _____
 while _____ During erection on _____ Feb. 6, 5, 14, 24, 25, 26. Mar. 6, 7, 14, 15, 20, 22, 26. Apr. 4 _____ Total No. of visits 32
 ilding _____ board vessel _____ 9, 16, 18, 24, 30. May 29. June 16, 21. July 3, 9.

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

The material and workmanship is good.

The boiler has been built under Special Survey, and sent to Montreal, Canada.

Survey Fee ... £ _____ When applied for, _____ 191 _____
 Travelling Expenses (if any) £ _____ When received, _____ 191 _____

TUE. 11 FEB. 1919

(Sgd) Peter Mc Gregor 2019
 Engineer Surveyor to Lloyd's Register of Shipping.

TUE. APR. 27 1920

TUE. MAY. 4 1920

Lloyd's Register
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 W 745-0154