

Rpt. 5. REC'D NEW YORK No. 29-1918. REPORT ON BOILERS. No. 12 MK 1631. Date of writing Report June 10th 1918 When handed in at Local Office June 13th 1918 Port of Toronto. No. in Survey held at Toronto Date, First Survey Mar. 5/18. Last Survey Nov. 7 1918. Reg. Book. Wood. S. S. "War Seneca" (Number of Visits 24) Gross 2284 Net 1328 on the 6 Elements + 2 Steam collectors of the S. M. B. Installation N° 19 of Howden Boilers. Master M. Clifford Built at Quebec, P. Q. By whom built Lunan & Robertson. When built 11/1918. Engines made at Toronto, Ont. By whom made Canadian Allis Chalmers When made 1918. Boilers made at Toronto By whom made Parsons Iron Works When made 1918. Registered Horse Power 322 Owners Imperial Munitions Board Port belonging to Quebec.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lukens Coatesville U.S.A. (Letter for record S. V) Total Heating Surface of Boilers 5280 sq ft Is forced draft fitted Yes No. and Description of Boilers 2 Howden Working Pressure 185 lbs Tested by hydraulic pressure to 280 lbs Date of test May 7th 29th. No. of Certificates 29 34 Can each boiler be worked separately Yes Area of fire grate in each boiler 60 sq ft No. and Description of safety valves to each boiler Double spring loaded Area of each valve 8.29 Pressure to which they are adjusted 185 lbs. Are 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 8" Mean radius of boilers 18 7/16 Length 2.56 11-6 2.65 9-0. Material of shell plates Steel Thickness 9/16 Range of tensile strength 26-30 Are the shell plates welded or flanged No. Descrip. of riveting: cir. seams Single long. seams Double Diameter of rivet holes in long. seams 7/8 Pitch of rivets 2.65 Lap of plates or width of butt straps 4 3/16 Per centages of strength of longitudinal joint rivets 79.9 plate 65.8 Working pressure of shell by rules 218 Size of manhole in shell 16" x 12" Size of compensating ring No. and Description of Furnaces in each boiler None Material Outside diameter Length of plain part Top Thickness of plates crown bottom Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space: Material Steel Thickness 1 unsupported Pitch of stays 15 x 15 How are stays secured Working pressure by rules 199 Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates of bottom Steel Thickness 7/8 Material of Lower back plate Steel Thickness 3/4 Greatest pitch of stays Dished Working pressure of plate by rules 185 Diameter of tubes 2 Pitch of tubes 3 1/4 x 2 3/4 Material of tube plates Steel Thickness: Front 1 3/8 Back 1 3/8 Mean pitch of stays Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/4 x 2 1/4 Length as per rule 2-11 7/16 Distance apart 6 Number and pitch of Stays in each 4 - 6 3/4 Working pressure by rules 200 Superheater or Steam chest: how connected to boiler to shell Can the superheater be shut off and the boiler worked separately No Diameter 2 7/8 Length 10-2 3/4 Thickness of shell plates 7/16 Material Steel Description of longitudinal joint Lap Diam. of rivet holes 1 3/8 Pitch of rivets 2.5 Working pressure of shell by rules 255 Diameter of flue Material of flue plates Thickness 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

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel Made at By whom made When made Where fixed Working pressure Tested by hydraulic pressure to Date of test No. of Certificates Fire grate area Description of longitudinal joint No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown Stays Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes The foregoing is a correct description, Manufacturer.

Dates During progress of work in shops -- Mar. 5. 9. 13. 19. April 6. 17. 25. May 3. 7. 13. 25. 29. June 3. 11. Survey while board vessel -- July 10. 27. 30 Aug. 5. 12. 23. 31 Sep. 20. Oct. 11 Nov. 7. Total No. of visits 24. Is the approved plan of main boiler forwarded herewith 2/18



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

These boilers have been constructed under Special Survey. They are of good material & workmanship and have been tested under hydraulic pressure with satisfactory results. They have been shipped to Quebec to be fitted on board a wooden vessel, and will be eligible for record with date when completed with the machinery.

These boilers have been erected in the above vessel, the equalizing tubes fitted and the whole submitted to a water pressure of 280 lbs with satisfactory results. They have been tried under steam and found in order. The safety valves have been adjusted under steam to blow at a pressure of 185 lbs per sq. in. The thickness of the waters

Starboard Boiler		Port Boiler	
F	A	F	A
5/8"	9/16"	3/4"	3/4"

Certificate (if required) to be sent to

The amount of Entry Fee .. £	:	:	When applied for,
Special £ 60 : 00	:	:	Jan. 11. 8th 1918
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £	:	:	27/3/19 27/7

Committee's Minute

Assigned

Robert B. Blyth & *John W. Gwynne*
Engineers Surveyors to Lloyd's Register of Shipping

H. J. Alderson
President

FRI. NOV. 19 1920 TUE. 29 JUL. 1919 FRI. SEP. 20 1919 TUE. JUN. 15 1920
TUE. 27 JAN. 1920 TUE. MAR. 23 1920
FRI. APR. 30 1920
FRI. APR. 30 1920

Lloyd's Register
Foundation