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Rpt. 5.

REPORT ON BOILERS.

No. 162

Rec'd Halifax Aug 17 1920

Received at London Office WED 16 APR 1921

Date of writing Report Aug 4th 1920 When handed in at Local Office Aug 7th 1920 Port of Toronto
No. in Survey held at Toronto Date, First Survey June 9th 1920 Last Survey July 25th 1921
Reg. Book. 53793 on the Halifax Shipyards Ltd. Hull No. 2 (Number of Visits 53) Gross 5408.20
Master H. Wymen Built at Halifax By whom built Halifax Shipyards When built 1921
Engines made at Amherst N.S. By whom made Robt Eng-ine Works Co When made 1920
Boilers made at Toronto By whom made Canadian Allis & Chalmers When made 1920
Registered Horse Power 266.46 Owners Canadian Government Merchant Marine Co Port belonging to Montreal

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Midvale St. & Ordnance Co Philadelphia U.S.A.

(Letter for record 3. S. B.) Total Heating Surface of Boilers 8565 Is forced draft fitted yes No. and Description of June 11th 1920

Boilers 3. S. E. Multitubular Working Pressure 180 Tested by hydraulic pressure to 360 Date of test July 12th

No. of Certificate 120, 121, 122 Can each boiler be worked separately yes Area of fire grate in each boiler 74.75 sq ft No. and Description of

safety valves to each boiler Double Spring Loaded Area of each valve 9.6 sq in Pressure to which they are adjusted 180 lbs

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 12" Mean dia. of boilers 15'-6" Length 11'-6"

Material of shell plates O.H. Steel Thickness 1 3/8" Range of tensile strength 28632 lbs Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams Double long. seams Treble Diameter of rivet holes in long. seams 1 7/16" Pitch of rivets 4 7/8"

Lap of plates or width of butt straps 20 3/4" Per centages of strength of longitudinal joint rivets 88.9 Working pressure of shell by plate 85.7

rules 202 Size of manhole in shell 12 x 16 Size of compensating ring 37 1/2 x 33 No. and Description of Furnaces in each

boiler 3 Corrugated Material O.H. Steel Outside diameter 50 1/4" Length of plain part top Thickness of plates crown 7/8"

Description of longitudinal joint center ch. 3/16" No. of strengthening rings 1 Working pressure of furnace by the rules 200 Combustion chamber

plates: Material O.H. Steel Thickness: Sides 7/8" Back 3/8" Top 7/8" Bottom 1 1/8" Pitch of stays to ditto: Sides 8 x 8" Back 8 1/2 x 7 3/4"

Top 8 x 8 1/8" If stays are fitted with nuts or riveted heads riveted heads Working pressure by rules 181 Material of stays O.H. Steel Area at

smallest part 1.496 Area supported by each stay 6.8" Working pressure by rules 198 End plates in steam space: Material O.H. Steel Thickness 1 1/16"

Pitch of stays 16 1/2 x 16 1/2" How are stays secured South Nut Working pressure by rules 180 Material of stays O.H. Steel Area at smallest part 2.43

Area supported by each stay 2667 Working pressure by rules 186 Material of Front plates at bottom O.H. Steel Thickness 1 1/8" Material of

Lower back plate O.H. Steel Thickness 1 3/8" Greatest pitch of stays 8 x 8 1/4" Working pressure of plate by rules 190 Diameter of tubes 3"

Pitch of tubes 4 x 4 3/8" Material of tube plates O.H. Steel Thickness: Front 1 3/8" Back 3/4" Mean pitch of stays 8 x 8 3/8" Pitch across wide

water spaces 14 Working pressures by rules 266 Girders to Chamber tops: Material O.H. Steel Depth and thickness of

girder at centre 9 x 1 1/2" Length as per rule 2'-6 1/2" Distance apart 8 1/8" Number and pitch of Stays in each 3 @ 8"

Working pressure by rules 204 Steam dome: description of joint to shell no % of strength of joint no

Diameter no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no

Pitch of rivets no Working pressure of shell by rules no Crown plates no Thickness no How stayed no

SUPERHEATER. Type no Date of Approval of Plan no Tested by Hydraulic Pressure to no

Date of Test no Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler no

Diameter of Safety Valve no Pressure to which each is adjusted no Is Easing Gear fitted no

VERTICAL DONKEY BOILER— No. no Description no Manufacturers of steel no

Made at no By whom made no When made no Where fixed no Working pressure no

tested by hydraulic pressure to no Date of test no No. of Certificate no Fire grate area no Description of safety valves no

No. of safety valves no Area of each no Pressure to which they are adjusted no If fitted with easing gear no If steam from main boilers can

enter the donkey boiler no Dia. of donkey boiler no Length no Material of shell plates no Thickness no Range of tensile

strength no Descrip. of riveting long. seams no Dia. of rivet holes no Whether punched or drilled no Pitch of rivets no

Lap of plating no Per centage of strength of joint Rivets no Working pressure of shell by rules no Thickness of shell crown plates no

Radius of do. no No. of Stays to do. no Dia. of stays no Diameter of furnace Top no Bottom no Length of furnace no

Thickness of furnace plates no Description of joint no Working pressure of furnace by rules no Thickness of furnace crown

plates no Radius of do. no Stayed by no Diameter of uptake no Thickness of uptake plates no

Thickness of water tubes no

The foregoing is a correct description, Canadian Allis Chalmers Manufacturer.

Dates of Survey June 9, Aug. 14, Sept. 3, 26, Oct. 8, 28, Nov. 11, 20, Dec. 4, 10, 12, 19, 23, 29, 30, 31, Jan. 5, 10, 15, 16, 22, 26, 27

while building Dec. 21, 23, 24, 28, 30, 31, 1921, Jan. 6, 12, 21, 26, 27, 31, Feb. 7, 16, 19, 25

Total No. of visits 69 Is the approved plan of main boiler forwarded herewith no

Is the approved plan of donkey boiler forwarded herewith no

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

These boilers have been constructed under Special Survey are of good material and workmanship. They have been despatched to the Halifax Shipyard Ltd. to be fitted on board their Hull N^o 2 and will be eligible for record with date when completed with the machinery.

These boilers have been satisfactorily fitted on board, together with mountings & connections and tried under steam with satisfactory results. A hydrostatic test was also placed on the boilers when completed to 270 lbs. In my opinion they are eligible for record of LMC 2-21 with machinery.

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £	:	:	When applied for,
Special	79	65	Aug 2 1920
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) #	50	:	8/12/20

Committee's Minute FRI APR 15 1921

Assigned

Robert C. Blyth L Moore.
Engineer Surveyor to Lloyd's Register of Shipping



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Lloyd's Register
Foundation