

REPORT ON BOILERS.

No. 193

Date of writing Report June 14 1922 When handed in at Local Office June 15 1922 Port of Toronto
 No. in Survey held at Sarnia Date, First Survey Jan 20. 22 Last Survey Apr 13. 1922
 Reg. Book. 29249 on the S.S. ROYALITE (Number of Visits 6) Gross Tons 2052 Net 1542
 Master Collingwood Built at Collingwood By whom built Collingwood S.B.C. When built 1916
 Engines made at Collingwood By whom made Collingwood S.B.C. When made 1916
 Boilers made at Collingwood By whom made Collingwood S.B.C. When made 1916
 Registered Horse Power 96 Owners Imperial Oil Co Port belonging to Sarnia

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record) Total Heating Surface of Boilers Is forced draft fitted No. and Description of Boilers Working Pressure Tested by hydraulic pressure to Date of test
 No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to each boiler Area of each valve Pressure to which they are adjusted
 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 or woodwork Mean dia. of boilers Length
 Material of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged
 Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets
 Lap of plates or width of butt straps Per centages of strength of longitudinal joint rivets plate Working pressure of shell by rules
 Size of manhole in shell Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter Length of plain part top bottom 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 Area at smallest part
 Area supported by each stay Working pressure by rules End plates in steam space: Material Thickness
 Pitch of stays How are stays secured Working pressure by rules Material of stays Area at smallest part
 Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes
 Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of order at centre Length as per rule Distance apart Number and pitch of Stays in each
 Working pressure by rules Steam dome: description of joint to shell % of strength of joint
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed
 SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

VERTICAL DONKEY BOILER— No. 1 Description Vertical Manufacturers of steel North Bros.
 Made at Collingwood By whom made Collingwood S.B.C. When made 1916 Where fixed in Boiler space Working pressure 125
 Tested by hydraulic pressure to 188 Date of test 16-5-16 No. of Certificate 2 Fire grate area 24 Description of safety valves 2 Spring loaded
 of safety valves 2 Area of each 7.854 Pressure to which they are adjusted 100 If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 30 Length 48 Material of shell plates Steel Thickness 5/16 Range of tensile strength 24-30 Descrip. of riveting long. seams Double Dia. of rivet holes 7/16 Whether punched or drilled drilled Pitch of rivets 2 5/16
 of plating 3 9/16 Per centage of strength of joint Rivets 70 Plates 78.2 Working pressure of shell by rules 180 Thickness of shell crown plates 3/8
 Thickness of do. flat No. of Stays to do. 12 Dia. of stays 1 1/8 Diameter of furnace Top 24 Bottom 24 Length of furnace 14
 Thickness of furnace plates 3/8 Description of joint Riveted Working pressure of furnace by rules 172 Thickness of furnace crown plates 3/8 Radius of do. flat Stayed by 12 - 1 1/8 Diameter of uptake 1 Thickness of uptake plates 1
 Thickness of water tubes 1

The foregoing is a correct description.
 The COLLINGWOOD SHIPBUILDING COMPANY, Limited.
John J. Lenth Manufacturer.
Vice-President.

During progress of work in shops --
 During erection on board vessel --
 Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

005756-005778-0026

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

The donkey boiler on this vessel is fitted for the
Sole purpose of Supplying steam to the oil fuel pump
when raising steam on the main boiler
It is as far as can be seen of good material and
workmanship.

The mountings and Connections are Satisfactory.
The records of the Canadian Government Steamboat
Inspector at Collingwood show that the boiler was
tested under hydraulic pressure to 188 lbs in May^{16th} 1916
and Stamped E.W.M.C. MAY 1916. 188. 125

This Boiler is a duplicate of those fitted in the
S.S. "Locolite", "Alaralite", "Reginald".

Certificates (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 £	:	:19.....
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £	:	:19.....

Committee's Minute

Assigned

FRI. 7 JUL. 1922

As now

11

A. Scott.

Engineer Surveyor to Lloyd's Register of Shipping

TUE. 4 MAR. 1923



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