

Date of writing Report 9th Oct 1916 When Vandedyk at Local Office

Port of Toronto, Ontario

No. in Survey held at Collingwood Ontario Date, First Survey 6th Oct 1916 Last Survey 15th Sept 1916

Reg. Book. on the Single Screw Steamer "Locolite"

(Number of Voids)

Gross 2060.03

Net 1548.88

Master J. J. Watkins Built at Collingwood, Ont By whom built Collingwood Shipbuilding Co. Ltd. When built 1916

Engines made at Collingwood Ont By whom made Collingwood Shipbuilding Co. Ltd. when made 1916

Boilers made at do By whom made do when made 1916

Registered Horse Power 95.6 Owners Imperial Oil Co. Ltd. Port belonging to Sarnia

Nom. Horse Power as per Section 28 142.7 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines 1-Vertical Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 16-26 + 44 Length of Stroke 36 Revs. per minute 80 Dia. of Screw shaft as per rule 10.102 Material of Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight

in the propeller boss Yes If the liner is in more than one length are the joints burned Yes If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Slightly If two

liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 4 feet

Dia. of Tunnel shaft as per rule 8.6045 Dia. of Crank shaft journals as per rule 9.034 Dia. of Crank pin 9 1/2 Size of Crank webs x 12 Dia. of thrust shaft under

collars 9 1/2 Dia. of screw 13 1/4 Pitch of Screw 12 ft No. of Blades 4 State whether moveable Yes Total surface 56 sq ft

No. of Feed pumps 4 (2) Diameter of ditto 3 Stroke 20 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 3 (2) Diameter of ditto 3 Stroke 20 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 1 Sizes of Pumps 14" x 8" x 12" Duplex No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 3-8" Bilge, 2-5" Tank and 1-6" Tank Suctions In Holds, &c. 4-3" Suction in Fore hold, 1-3" Suction in Pump Room

1-3" Suction in Fore Peak, 1-3" Suction in After Peak, 1-3" Siphon in Pump Room and Cofferdams

No. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump Circulating Is a separate Donkey Suction fitted in Engine room & size Yes 4"

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible None

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves except Pater & Expositor Plus off

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line above

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What pipes are carried through the bunkers Air pipes to double bottom How are they protected Wood casing

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Dates of examination of completion of fitting of Sea Connections 13/4/16 of Stern Tube 5/4/16 Screw shaft and Propeller 28/4/16

Is the Screw Shaft Tunnel watertight No Tunnel Is it fitted with a watertight door No worked from

BOILERS, &c.—(Letter for record (T) Manufacturers of Steel Worth Bros.

Total Heating Surface of Boilers 2443 Is Forced Draft fitted No No. and Description of Boilers 1 Single Ended

Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 3/11/15 No. of Certificate 5

Can each boiler be worked separately Area of fire grate in each boiler 72 No. and Description of Safety Valves to

each boiler 1-3" Twin Area of each valve 7.07 Pressure to which they are adjusted 180 Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 3-9" boiler to bunker Mean dia. of boilers 15 ft Length 11 ft Material of shell plates Steel

Thickness 1.4 Range of tensile strength 28-32 Tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams None

long. seams 2 1/2" Stays 3/4" Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 9 1/2 Lap of plates or width of butt straps 2 1/4

Per centages of strength of longitudinal joint rivets 95.4 Working pressure of shell by rules 210.4 Size of manhole in shell 16 x 12

Size of compensating ring 34 x 31 No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 49.3

Length of plain part top Thickness of plates crown 65 Description of longitudinal joint Welded No. of strengthening rings 10

Working pressure of furnace by the rules 214.5 Combustion chamber plates: Material Steel Thickness: Sides 19 Back 19 Top 19 Bottom 3

Pitch of stays to ditto: Sides 7 1/2 x 6 Back 7 x 6 1/2 Top 8 x 7 If stays are fitted with nuts or riveted heads Others Riveted Working pressure by rules 195.9

Material of stays Inner 1/2" Diameter at smallest part 1 1/2 Area supported by each stay 45.5 Working pressure by rules 227.7 End plates in steam space

Material Steel Thickness 3/8 Pitch of stays 16 x 16 How are stays secured nuts outside Working pressure by rules 197.6 Material of stays Steel

Diameter at smallest part 2 1/2 Area supported by each stay 266 Working pressure by rules 199.4 Material of Front plates at bottom Steel

Thickness 1/16 Material of Lower back plate Steel Thickness 1/16 Greatest pitch of stays 11 x 20 Working pressure of plate by rules 196.9

Diameter of tubes 3 Pitch of tubes 4 1/2 x 4 Material of tube plates Steel Thickness: Front 1/16 Back 1/16 Mean pitch of stays 8 1/2 x 8

Pitch across wide water spaces 14 1/2 Working pressures by rules 191 Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 10 x 1 1/2 Length as per rule 33 Distance apart 7 1/2 x 8 Number and pitch of stays in each 3 @ 7"

Working pressure by rules 203.8 Superheater or Steam chest; how connected to boiler 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

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If 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

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR.

State the articles supplied:— 2 Spare Propeller Blades, 2 main bearing bolts and nuts, 24 follower studs and nuts,

12 Cylinder & valve cover studs & nuts, 1 set cross head brasses, 6 coupling bolts, 1 complete set spare valves and studs for

each pump, Complete set wrenches for all parts of main and auxiliary machinery

The foregoing is a correct description,

John J. Letch

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 6/10/15, 22/10/15, 3-25/11/15, 9/12/15, 7-19/1/16, 10/2/16, 25/2/16, 9/3/16, 5/4/16
During erection on board vessel -- 13/4/16, 5/5/16, 12/7/16, 27/7/16, 17/8/16, 23/8/16, 5/9/16, 14/9/16, 15/9/16
Total No. of visits 20

Is the approved plan of main boiler forwarded herewith? No

Dates of Examination of principal parts—Cylinders 25/11/15 Slides 25/11/15 Covers 9/12/15 Pistons 7/1/16 Rods 19/1/16

Connecting rods 10/2/16 Crank shaft 10/2/16 Thrust shaft 5/4/16 Tunnel shafts — Screw shaft 13/4/16 Propeller 13/4/16

Stern tube 5/4/16 Steam pipes tested 23/8/16 Engine and boiler seatings 7/1/16 Engines holding down bolts 5/5/16

Completion of pumping arrangements 13/9/16 Boilers fired 24/3/16 Engines tried under steam 14/9/16

Main boiler safety valves adjusted 14/9/16 Thickness of adjusting washers Port 18" Starboard 32"

Material of Crank shaft Steel Identification Mark on Do. 305 A.T.T. Material of Thrust shaft Steel Identification Mark on Do. 305 A.T.T.

Material of Tunnel shafts — Identification Marks on Do. — Material of Screw shafts Steel Identification Marks on Do. 305 A.T.T.

Material of Steam Pipes Wrought Iron Test pressure 540 lbs.

Is an installation fitted for burning oil fuel? to be fitted later Is the flash point of the oil to be used over 150°F. No

Have the requirements of Section 49 of the Rules been complied with? Yes

Is this machinery duplicate of a previous case? Yes If so, state name of vessel Royalite (CS 60745)

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been built in accordance with the Rules and approved Plans

The quality of the material and workmanship is good and eligible, in my opinion to be classed and have the notation + LMC. 9-16 (in red)

The amount of Entry Fee ... £ 2-0-0 When applied for.
Special ... £ 21-9-0
Donkey Boiler Fee ... £ —
Travelling Expenses (if any) £ 20-2-0

Committee's Minute

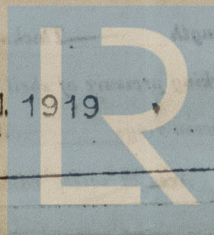
FRI. 17 NOV. 1916

Assigned

+ Lm 6 9 16

FRI. 10 JAN. 1919

J. R. J. Penson
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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