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Date of writing Report 17th Dec 1916 to when handed in at Local OfficePort of Toronto OntarioNo. in Survey held at Collingwood Ontario
Reg. Book.Date, First Survey 24th Feb 1916Last Survey 18th November 1916on the Single Screw Steamer "Sarnolite"

(Number of Visits)

Gross 2060.03

Net 1348.88

Master Alex J. Judd Built at Collingwood By whom built Collingwood Shipbuilding Co. Ltd When built 1916Engines made at Collingwood By whom made Collingwood Shipbuilding Co. Ltd when made 1916Boilers made at Collingwood By whom made Collingwood Shipbuilding Co. Ltd when made 1916Registered Horse Power 95.6 Owners The Imperial Oil Co. Ltd Port belonging to SarniaNom. Horse Power as per Section 28 142.7 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YesENGINES, &c.—Description of Engines 1 Vertical Triple Expansion No. of Cylinders 3 No. of Cranks 3Dia. of Cylinders 16"-26" & 44" Length of Stroke 36" Revs. per minute 80 Dia. of Screw shaft as per rule 10.02 Material of Steel
as fitted 10.02 screw shaftsIs 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 tightin 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 partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Slightly If twoliners are fitted, is the shaft lapped or protected between the liners Length of stern bush 4 ftDia. 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 undercollars 9 1/2 Dia. of screw 13 ft Pitch of Screw 12 ft No. of Blades 4 State whether moveable Yes Total surface 56 sq ftNo. of Feed pumps 4 Diameter of ditto 1-8 x 5" Stroke 12" Can one be overhauled while the other is at work YesNo. of Bilge pumps 3 Diameter of ditto 1-14 x 8" Stroke 12" Can one be overhauled while the other is at work YesNo. of Donkey Engines 1 Sizes of Pumps 14" x 8" x 12" duplex No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room 3-3" Bilge 2-5" Tank and 1-5" Tank In Holds, &c. 1-3" Suction in Fore Hold, 1-3" Suction in Pump Room1-3" Suction in Fore Peak, 1-3" Suction in After Peak 2-6" Cargo Suctions in each Cargo TankNo. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump as a separate Donkey Suction fitted in Engine room & size 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 NoneAre all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves except Bottoms Expectorator & the OffAre 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 aboveAre 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 YesWhat pipes are carried through the bunkers none How are they protectedAre all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges YesDates of examination of completion of fitting of Sea Connections X of Stern Tube X Screw shaft and Propeller XIs the Screw Shaft Tunnel watertight no tunnel Is it fitted with a watertight door worked fromBOILERS, &c.—(Letter for record 7) Manufacturers of Steel Worth Bros.Total Heating Surface of Boilers 2443 Is Forced Draft fitted No No. and Description of Boilers 1 Single EndedWorking Pressure 180 Tested by hydraulic pressure to 360 Date of test 29/10/16 No. of Certificate 7Can each boiler be worked separately — Area of fire grate in each boiler 72 No. and Description of Safety Valves toeach boiler 1-3" twin Area of each valve 7.07" Pressure to which they are adjusted 180 Are they fitted with easing gear YesSmallest distance between boilers or uptakes and bunkers or woodwork 3-9" Bunkers Mean dia. of boilers 15 ft Length 11 ft Material of shell plates SteelThickness 1-4 Range of tensile strength 28-32 tons Are the shell plates welded or flanged — Descrip. of riveting: cir. seams nonelong. seams 2 1/4" Staps 3/16" Diameter of rivet holes in long. seams 1 1/32 Pitch of rivets 9 1/2 Lap of plates or width of butt straps 2 1/4"Per centages of strength of longitudinal joint 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 49.3Length of plain part top Thickness of plates bottom 6.5 Description of longitudinal joint Welded No. of strengthening rings 10Working pressure of furnace by the rules 214.5 Combustion chamber plates: Material Steel Thickness: Sides 3/2" Back 3/2" Top 3/2" Bottom 3/2"Pitch of stays to ditto: Sides 7 1/2" x 6" Back 7 x 6" Top 8 x 7" If stays are fitted with nuts or riveted heads Other Rules riveted Working pressure by rules 195.7Material of stays Outer back Steel Diameter at smallest part 1 1/32 Area supported by each stay 45.5 Working pressure by rules 227.7 End plates in steam spaceMaterial Steel Thickness 3/8" Pitch of stays 16 x 16 How are stays secured screwed through plates Working pressure by rules 197.6 Material of stays SteelDiameter at smallest part 2 1/2" Area supported by each stay 266" Working pressure by rules 199.4 Material of Front plates at bottom SteelThickness 1 1/2" Material of Lower back plate Steel Thickness 1 1/2" Greatest pitch of stays 11 x 20 Working pressure of plate by rules 196.9Diameter of tubes 3" Pitch of tubes 44 x 44 Material of tube plates Steel Thickness: Front 1/2" Back 1/2" 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 andthickness of girder at centre 10 x 1 1/2" Length as per rule 33 Distance apart 14 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 workedseparately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivetholes — 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 —

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