

Date of writing Report 1914 When filed in at Local Office 19 Port of DETROIT, MICH.

No. in Survey held at WALKERVILLE, ONT. Date, First Survey Nov. 14, 1914 Last Survey 19  
Reg. Book. on the Single Screw Wood Steamship "Wm. C. Brown" (Number of Visits)  
Master W. Kernahan Built at N. Westminster By whom built N. Westminster Engine Co. Ltd. Tons { Gross 235.54  
Net 142.28  
When built

Engines made at WALKERVILLE, ONT. By whom made CANADIAN BRIDGE CO. when made 1918  
Boilers made at Toronto By whom made John Inglis & Co. Ltd. when made 1918  
Registered Horse Power 1300. Owners J. Cook & Sons (London) Port belonging to N. Westminster  
Nom. Horse Power as per Section 28 322 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

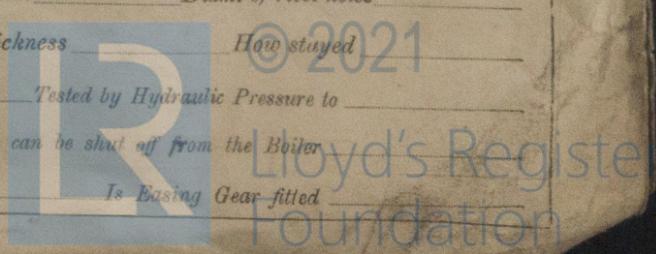
ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 19x32x54 Length of Stroke 40 Revs. per minute 82 Dia. of Screw shaft as per rule 11.59 Material of screw shaft S  
as fitted 12 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight  
the propeller boss 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 Yes If two  
liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 49  
Dia. of Tunnel shaft as per rule 10.13 Dia. of Crank shaft journals as per rule 10.85 Dia. of Crank pin 11 Size of Crank webs 22x84 Dia. of thrust shaft under  
bolts 11 Dia. of screw Pitch of Screw No. of Blades State whether moceable Total surface

No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work  
No. of Bilge pumps 2 Diameter of ditto 8 1/2 Stroke 18 Can one be overhauled while the other is at work Yes  
No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps  
Engine Room In Holds, &c.

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size  
Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible  
Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks  
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line  
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate  
How are they protected  
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times  
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges  
Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

MANIFOLDERS, &c.—(Letter for record) Manufacturers of Steel  
Working 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  
Is each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to  
Area of each valve Pressure to which they are adjusted Are they fitted with easing gear  
Least distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates  
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams  
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps  
Percentage of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell  
No. and Description of Furnaces in each boiler Material Outside diameter  
Thickness of plates crown Description of longitudinal joint No. of strengthening rings  
Combustion chamber plates: Material Thickness: Sides Back Top Bottom  
If stays are fitted with nuts or riveted heads Working pressure by rules  
Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:  
Pitch of stays How are stays secured Working pressure by rules Material of stays  
Area supported by each stay Working pressure by rules Material of Front plates at bottom  
Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules  
Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays  
Working pressures by rules Girders to Chamber tops: Material Depth and  
Distance apart Number and pitch of stays in each  
Steam dome: description of joint to shell % of strength of joint  
Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
Working pressure of shell by rules Crown plates Thickness How stayed

REHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to  
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler  
Pressure to which each is adjusted Is Easing Gear fitted



200-495M

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

THE CANADIAN BRIDGE CO. Limited  
*L. A. Paddock* Manufacturer.

Dates of Survey while building  
 During progress of work in shops. -- 1917. Nov. 14-20-26. DEC. 5-7-13-18. 20. 1918. JAN. 15-16-23-29. FEB. 16-22-28. MAR. 5-14-20. 20. APR. 2-9-10-22. MAY 2-8-15-20-28.  
 During erection on board vessel ---  
 Total No. of visits DET. 33

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 2-5-18 Slides 2-5-18. Covers 2-5-18. Pistons 20-5-18 Rods 28-5-18  
 Connecting rods 28-5-18 Crank shaft 2-5-18 Thrust shaft 2-5-18 Tunnel shafts 2-5-18 Screw shaft 20-5-18 Propeller

Stern tube 28-5-18 Steam pipes tested Engine and boiler seatings Engines holding down bolts  
 Completion of pumping arrangements Boilers fixed Engines tried under steam  
 Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers LLOYDS No 74  
 Material of Crank shaft S. Identification Mark on Do. 5-18 J.F.R. Material of Thrust shaft S Identification Mark on Do. 5-18  
 Material of Tunnel shafts S. Identification Marks on Do. 5-18 J.F.R. Material of Screw shafts S Identification Marks on Do. 5-18

Material of Steam Pipes Test pressure  
 Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150°F.

Have the requirements of Section 49 of the Rules been complied with  
 Is this machinery duplicate of a previous case If so, state name of vessel

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

These Engines have been built under Special Survey, and in accordance with the Rules the materials and workmanship are sound and good.

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

The amount of Entry Fee ... \$15.00 : When applied for, 11th July 1918  
 Special DETROIT 1/2 FEE ... £ 36.00 :  
 Donkey Boiler Fee ... £ 30.00 :  
 Travelling Expenses (if any) DETROIT ... £ 2.30 :  
 When received, 27/7/19  
 Jos. F. Rawlinson, Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute Assigned  
 TUE. 11 FEB. 1919  
 FRI. 14 MAR. 1919  
 FRI. 9 MAY. 1919

