

Date of writing Report Oct 19th 1918 When handed in at Local Office Oct 19th 1918 Port of Victoria B.C.
No. in Survey held at Victoria B.C. Date, First Survey Aug 10th 18 Last Survey Oct 7th 1918
Reg. Book. 1671 on the Single Screw Wood Steership "Haw Bahint" (Number of Visits 12)
Master McLennan Built at Victoria B.C. By whom built Fairbank Co Tons { Gross 2341.87
Net 1417.81
Engines made at Toronto By whom made Polson Iron Works when made 1918
Boilers made at Victoria B.C. By whom made Polson Iron Works when made 1918
Registered Horse Power 1400 Owners Eastern Steam Co (Glasgow) Port belonging to Victoria B.C.
Nom. Horse Power as per Section 28 3126 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Indirect Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 20 1/2" x 33" x 54" Length of Stroke 36" Revs. per minute 78 Dia. of Screw shaft 1 1/2" Material of screw shaft 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 Yes If two liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 3'-10"
Dia. of Tunnel shaft 10 1/2" Dia. of Crank shaft journals 10 1/2" Dia. of Crank pin 11" Size of Crank webs 8'x20" Dia. of thrust shaft under collars 10 1/2" Dia. of screw 14'x0" Pitch of Screw 14'x0" No. of Blades 4 State whether moveable No Total surface 64 sq ft
No. of Feed pumps 2 Diameter of ditto 10" Stroke 12" Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 8'x5" Stroke 12" Can one be overhauled while the other is at work Yes
No. of Donkey Engines 7 Sizes of Pumps 1 1/2" x 10" - 2' x 5' x 12" - 5' x 4' x 12" No. and size of Suctions connected to both Bilge and Donkey pumps 2' x 2 1/2"
In Engine Room 1'-6" A-3" In Holds, &c. 5'-3" 2'-2 1/2"

No. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3"
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 Yes
Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both Valves & Cocks
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 No
What pipes are carried through the bunkers Bilge Lines How are they protected Iron Sheathing
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
Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top Eng. Platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel No. 1000000
Total Heating Surface of Boilers 5280 sq ft Is Forced Draft fitted Yes No. and Description of Boilers Two New For Water Tube
Working Pressure 185 lb Tested by hydraulic pressure to 370 lb Date of test Aug 28th 18 No. of Certificate 1000000
Can each boiler be worked separately Yes Area of fire grate in each boiler 60 sq ft No. and Description of Safety Valves to each boiler 2 Spring Loaded Area of each valve 8'x2 1/2" Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 10" Material of shell plates Steel Length of plates 9'x4' Material of shell plates Steel
Thickness 3/8" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged Welded Descrip. of riveting: cir. seams Single Lap
long. seams Double Lap Diameter of rivet holes in long. seams 7/8" Pitch of rivets 2'x6" Lap of plates or width of butt straps 4'x6"
Per centages of strength of longitudinal joint 79.86% Working pressure of shell by rules 218 Size of manhole in shell 12'x16"
Size of compensating ring None No. and Description of Furnaces in each boiler 1 Material Steel Outside diameter 4'x6"
Length of plain part top 1'x6" bottom 1'x6" Thickness of plates 3/8" Description of longitudinal joint Welded No. of strengthening rings 1
Working pressure of furnace by the rules 185 lb Combustion chamber plates: Material Steel Thickness: Sides 3/8" Back 3/8" Top 1'x6" Bottom 3/8"
Pitch of stays to ditto: Sides 1'x6" Back 1'x6" Top 1'x6" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 185 lb
Material of stays Steel Area at smallest part 3'x4" Area supported by each stay 1'x6" Working pressure by rules 185 lb End plates in steam space: Steel
Material Steel Thickness 3/8" Pitch of stays 1'x6" How are stays secured Riveted Working pressure by rules 185 lb Material of stays Steel
Area at smallest part 3'x4" Area supported by each stay 1'x6" Working pressure by rules 185 lb Material of Front plates at bottom Steel
Thickness 3/8" Material of Lower back plate Steel Thickness 3/8" Greatest pitch of stays 1'x6" Working pressure of plate by rules 185 lb
Diameter of tubes 2" Pitch of tubes 3'x24" Material of tube plates Steel Thickness: Front 3/8" Back 3/8" Mean pitch of stays 1'x6"
Pitch across wide water spaces 1'x6" Working pressures by rules 185 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6'x8" Length as per rule 33" Distance apart 6" Number and pitch of stays in each 4 @ 6"
Working pressure by rules 185 lb Steam dome: description of joint to shell Welded % of strength of joint 100%
Diameter 1'x27" Thickness of shell plates 3/8" Material Steel Description of longitudinal joint Lap Diam. of rivet holes 7/8"
Pitch of rivets 2'x6" Working pressure of shell by rules 230 lb Crown plates Yes Thickness 3/8" How stayed Yes

SUPERHEATER. Types Horizontal Date of Approval of Plan 1918 Tested by Hydraulic Pressure to 185 lb
Date of Test 1918 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
Diameter of Safety Valve 1'x6" Pressure to which each is adjusted 185 lb Is Easing Gear fitted Yes

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two connecting Rod Top End Bolts & Nuts, Two
Connecting Rod Bottom End Bolts & Nuts Two Main Bearing Bolts & Nuts
One set of Coupling Bolts & Nuts. One set of Feed Pump Valves. One set of
Pump Valves. One set of Piston Springs. Two Iron Rods of each size
5" 1/2 3" 1/2 1 1/2" acc 10 ft long. 50 Assorted Bolts & Nuts. 1 Pipe

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

June 10th 1918 July 10th 26 Aug 3.25.18 Sept 6.13.18 Oct 7th 12.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders

June 10th Slides June 10th Covers June 10th Pistons June 25th Rods June 25th

Connecting rods June 25th Crank shaft June 25th Thrust shaft June 25th Tunnel shafts June 25th Screw shaft June 10th Propeller June 10th

Stern tube June 10th Steam pipes tested Sept 6th 8 Engine and boiler seatings Aug 10th 8 Engines holding down bolts Aug 3rd 1918

Completion of pumping arrangements Aug 28th 18 Boilers fixed Aug 3rd 1918 Engines tried under steam Oct 7th 19

Completion of fitting sea connections June 13th 18 Stern tube June 10th 18 Screw shaft and propeller June 13th 18

Main boiler safety valves adjusted Oct 7th 1918 Thickness of adjusting washers 3/4" 5/8" 3/4" 5/8" 3/4" 5/8"

Material of Crank shaft Steel Identification Mark on Do. 12-5-18 12-5-18 Material of Thrust shaft Steel Identification Mark on Do. 12-5-18 12-5-18

Material of Tunnel shafts Steel Identification Marks on Do. 12-5-18 12-5-18 Material of Screw shafts Steel Identification Marks on Do. 12-5-18 12-5-18

Material of Steam Pipes Steel Test pressure 500 lbs

Is an installation fitted for burning oil fuel No 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 Yes If so, state name of vessel "Hon Russell"

General Remarks (State quality of workmanship, opinions as to class, &c. The following elements comprise

to Builders of this vessel

PORT HEADER	No 152	No 152	No 152	STARBOARD	HEADER	No 153	No 153	No 153
No 152	14172	14172	14172	No 153	No 153	14159	14159	14159
14172	L.T. 370 L.H.	L.T. 370 L.H.	L.T. 370 L.H.	14159	L.T. 370 L.H.	L.T. 370 L.H.	L.T. 370 L.H.	L.T. 370 L.H.
L.T. 370 L.H.	20-3-18 J.H.	20-3-18 J.H.	20-3-18 J.H.	L.T. 370 L.H.	11-3-18 P.M.	11-3-18 P.M.	11-3-18 P.M.	11-3-18 P.M.

The Engines & Boilers have been built and installed under Survey and in accordance with the approved plans together with the auxiliaries, piping, mountings, fittings & sea connections.

The Material and workmanship are both of good quality. Upon completion the Machinery was tried under steam and found satisfactory. Dewater Pump & Connections in good working order.

The Machinery & Boilers are eligible in my opinion to have to record LMB 10-18 & S 10-18 made in the Register Book in the case of this vessel

Note: The Vessel to be examined in twelve months time

(TELEGRAM: EL. LLOYD, NEW YORK APR 1918)

The amount of Entry Fee £ 60 : 50 :
Special ... £ 120 : 50 :
Donkey Boiler Fee £ : :
Travelling Expenses (if any) \$ 22 : :
NEW YORK \$ 4 : :

When applied for, from 1876/1919

When received, 28/6/19

Committee's Minute

TUE. 10 DEC. 1918

Assigned

+ LMB 10. 18. F.D.

note limits

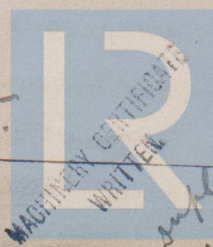
Subject

James Hurdock.
Engineer Surveyor to Lloyd's Register of Shipping.

TUE. 18 MAR. 1919

TUE. 22 JUL. 1919

FRI. AUG. 20 1920



Lloyd's Register of Shipping Foundation