

Rpt. 4.

REPORT ON MACHINERY

No. 685

Received at London Office

31 JAN. 1911

Date of writing Report *Nov 30th 18* When handed in at Local Office *Nov 30th 18* Port of *Tarenewick B.C.*
No. in Survey held at *New Westminster B.C.* Date, First Survey *April 17th 18* Last Survey *Nov 23rd 18*
Reg. Book. *107* on the *Superior Wood Steamer "Nar Eowasaw"* (Number of Voids *18*) Gross *233.54*
Master *N. Gervais* Built at *N. Westminster* By whom built *N. Westminster Eng^g & Eng^g Co* Tons Net *142.28*
Engines made at *Wakenville, Ont* By whom made *Canadian Bridge Co* when made *1918*
Boilers made at *Forat* By whom made *John Inglis & Co Ltd* when made *1918*
Registered Horse Power *1300* Owners *J Cooke & Sons (Abertown)* Port belonging to *New 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 *Inspected Triple Expansion* No. of Cylinders *3* No. of Cranks *3*
Dia. of Cylinders *19 x 32 x 54* Length of Stroke *40* Revs. per minute *11.59* Dia. of Screw shaft *12* 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 *4'-1"*
Dia. of Tunnel shaft *10.13* Dia. of Crank shaft journals *10.63* Dia. of Crank pin *11* Size of Crank webs *22 x 84* Dia. of thrust shaft under collars *18* Dia. of screw *14'-6"* Pitch of Screw *15'-3"* No. of Blades *4* State whether movable *No* Total surface *66.4 sq ft*
No. of Feed pumps *2* Diameter of ditto *10 x 6* Stroke *12* Can one be overhauled while the other is at work *Yes*
No. of Bilge pumps *2* Diameter of ditto *32* Stroke *18* Can one be overhauled while the other is at work *Yes*
No. of Donkey Engines *5* Sizes of Pumps *7 x 9 x 10 - 10 x 12 x 10* No. and size of Suctions connected to both Bilge and Donkey pumps in Engine Room *3 @ 3"* In Holds, &c. *2 @ 3" in each Hold*

No. of Bilge Injections *One* 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 Suction Pipes* How are they protected *Wood & Iron Skirting*
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 Engine Platform*

OILERS, &c.—(Letter for record *(S)*) Manufacturers of Steel *Lakers Conestoga U.S.A.*
Total Heating Surface of Boilers *5280 sq ft* Is Forced Draft fitted *Yes* No. and Description of Boilers *Two Horizontal Water Tube*
Working Pressure *185 lbs* Tested by hydraulic pressure to *280 lbs* Date of test *Aug 16th 18* No. of Certificate *2B*
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 Manual Spg Ld* Area of each valve *8.29* Pressure to which they are adjusted *185 lbs* Are they fitted with easing gear *Yes*
Smallest distance between boilers or uptakes and bunkers or woodwork *12"* Mean dia. of boilers *18 1/16* Length *9'-0"* Material of shell plates *Steel*
Thickness *9/16* Range of tensile strength *34,000 - 36,000* Are the shell plates welded or flanged *No* Descrip. of riveting: cir. seams *Single*
Long. seams *Double* Diameter of rivet holes in long. seams *7/8* Pitch of rivets *2.56* Lap of plates *2.65* Width of butt straps *4 1/16*
Per centages of strength of longitudinal joint *79.9* Working pressure of shell by rules *218* Size of manhole in shell *16" x 12"*

Size of compensating ring *Yes* No. and Description of Furnaces in each boiler *Yes* Material *Yes* Outside diameter *Yes*
Length of plain part *top* Thickness of plates *bottom* Description of longitudinal joint *Yes* No. of strengthening rings *Yes*
Working pressure of furnace by the rules *Yes* Combustion chamber plates: Material *Steel* Thickness: Sides *Yes* Back *Yes* Top *1 1/8* Bottom *Yes*
Pitch of stays to ditto: Sides *Yes* Back *Yes* Top *Yes* If stays are fitted with nuts or riveted heads *Yes* Working pressure by rules *Yes*
Material of stays *Yes* Area at smallest part *Yes* Area supported by each stay *Yes* Working pressure by rules *Yes* End plates in steam space *Yes*
Material *Steel* Thickness *3/4* Pitch of stays *None* How are stays secured *Disked* Working pressure by rules *199* Material of stays *Yes*
Area at smallest part *Yes* Area supported by each stay *Yes* Working pressure by rules *Yes* Material of Front plates *Steel*
Thickness *7/8* Material of Lower back plate *Steel* Thickness *3/4* Greatest pitch of stays *None: Disked* Working pressure of plate *185 lbs*
Diameter of tubes *2"* Pitch of tubes *2 1/4 x 2 3/4* Material of tube plates *Steel* Thickness: *Top 1 1/8 Bottom 1 1/8* Mean pitch of stays *Yes*
Pitch across wide water spaces *Yes* Working pressures by rules *approved* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *6 1/2 x 1 1/2* Length as per rule *approved* Distance apart *6"* Number and pitch of stays in each *4 @ 6 1/2*
Working pressure by rules *200* Steam description of joint to shell *Seamless Nipple Bolt to Shell* % of strength of joint *100*
Diameter *2 1/2* Thickness of shell plates *7/16 x 1"* Material *Steel* Description of longitudinal joint *Rep. D. Riv* Diam. of rivet holes *1 1/16*
Pitch of rivets *2.5* Working pressure of shell by rules *255 lbs* Crown plates *Yes* Thickness *Yes* How stayed *Yes*

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

TO WRITE ACROSS THE MARGIN.

W567-0022

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

No Connecting Rod Top End Bolts & Nuts
No Connecting Rod Top End Bolts & Nuts. No main Bearing Bolts
and Nuts. No Set of Coupling Bolts & Nuts. No set of Piston
Pump valves. No Set of Piston Springs. Bolts & Nuts assorted
No C.I. Spare Propeller.

The foregoing is a correct description,

Manufacturer.

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

Apr 17 May 23. June 8th 13 July 13. 19. 29. Aug 6 28. Sept 10. 19. 24 Oct 8. 21. 25. 31. Nov 12. 23
18 Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders June 8th Slides June 8th Covers June 8th Pistons June 8th Rods June 8th
Connecting rods June 8th Crank shaft June 8th Thrust shaft June 8th Tunnel shafts June 8th Screw shaft June 8th Propeller June 8th
Stern tube May 23rd Steam pipes tested Oct 25th 18 Engine and boiler seatings July 13th Engines holding down bolts July 13th
Completion of pumping arrangements Oct 25th 18 Boilers fixed July 29th 18 Engines tried under steam Nov 12th 18
Completion of fitting sea connections June 13th 18 Stern tube June 8th Screw shaft and propeller June 13th
Main boiler safety valves adjusted Nov 13th 18 Thickness of adjusting washers PV 2 1/2 PV 2 1/2 PV 1 1/2 PV 1 1/2
Material of Crank shaft AS Steel Identification Mark on Do. 10-11-17 Material of Thrust shaft AS Steel Identification Mark on Do. 5-12-17
Material of Tunnel shafts AS Steel Identification Marks on Do. 30-11-17 Material of Screw shafts AS Steel Identification Marks on Do. 22-12-17
Material of Steam Pipes AS Steel Test pressure 580 lbs sq in

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 No If so, state name of vessel

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

Complementary of the Boilers installed in this vessel:—							
PORT HEADER	No 26	No 26	No 26	STEAM HEADERS	No 24	No 24	No 24
TP 280 WP 185	TP 280 WP 185	TP 280 WP 185	TP 280 WP 185	TP 280 WP 185	TP 280 WP 185	TP 280 WP 185	TP 280 WP 185
13-4-18 R.C.B.	9-4-18 R.C.B.	9-4-18 R.C.B.	9-4-18 R.C.B.	9-4-18 R.C.B.	1-4-18 R.C.B.	1-4-18 R.C.B.	1-4-18 R.C.B.

The Engines and Boilers have been built & installed under special survey, and in accordance with the approved Plans together with associated piping & mountings, fittings and sea connections. The Materials & Workmanship are both of Good Quality. On Completion the Machinery was tried under steam and found Satisfactory.

Downton Pump and Connections in good order.

The Machinery and Boilers are Eligible in my opinion to be recorded in the Record & LMB 11-18 B 11-18 made in the Register Book in the Case of this Vessel.

NOTE. This Ship to be Examined at Joint of Liner, in Twelve Months Time

(TELEGRAM: New York APR 1st 1918)
E.M. SALMON

The amount of Entry Fee ... £ : :
Special ... \$120 : 50 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) \$39 : 00 :
When applied for, 19
When received, 27/3/19

Committee's Minute

TUE. 11 FEB. 1919

Assigned

FRI. 14 MAR. 1919
FRI. 9 MAY. 1919



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