

## REPORT ON MACHINERY

No. 40

REC'D NEW YORK Jan. 15-1919  
REC'D NEW YORK May 22-1918

Received at London Office

Survey Report May 17<sup>th</sup> 1918 When Made: In at Local Office May 20<sup>th</sup> 1918 Port of Toronto

Survey held at Toronto

Date, First Survey Feb. 20<sup>th</sup> 1918 Last Survey 19

on the J. M. B. R. No. 41

"Nau Casco"

(Number of Vessels)

G. Mann

Built at Vancouver B.C.

By whom built

Western Canada Lloyd

Tons

Gross 2318.61

Net 1824.7

When built 1918

made at By whom made when made

made at Toronto

By whom made

Canadian Atlas - Schalmers

when made

1918

ed Horse Power

Owners

Port belonging to

Horse Power as per Section 28 322

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

ES, &amp;c.—Description of Engines

Inverted Triple Expansion

No. of Cylinders 3

No. of Cranks 3

Cylinders 20" x 33" x 54"

Length of Stroke 40"

Revs. per minute 70

Dia. of Screw shaft

as per rule 11.7

Material of OH. Steel

as fitted 12

screw shaft

crew shaft fitted with a continuous liner the whole length of the stern tube

Is the after end of the liner made water tight

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

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

If two

are fitted, is the shaft lapped or protected between the liners

Length of stern bush 4' 1"

Tunnel shaft

as per rule 10.39

Dia. of Crank shaft journals

as per rule 10.9

Dia. of Crank pin 11 7/8

Size of Crank webs 6.5 x 21

Dia. of thrust shaft under

as fitted 10.5

Dia. of screw 14.6

Pitch of Screw 15.3

No. of Blades 4

State whether movable Solid Total surface 66.4 sq

Feed pumps 2

Diameter of ditto 3.5

Stroke 20

Can one be overhauled while the other is at work Yes

Bilge pumps 2

Diameter of ditto 3.5

Stroke 20

Can one be overhauled while the other is at work Yes

Donkey Engines

Sizes of Pumps

No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room

In Holds, &amp;c.

Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room of size

the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

connections with the sea direct on the skin of the ship

Are they Valves or Cocks

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

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

pipes are carried through the bunks

How are they protected

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

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

Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

ERS, &amp;c.—(Letter for record)

Manufacturers of Steel

Heating Surface of Boilers 5280 sq

Is Forced Draft fitted Yes

No. and Description of Boilers 2 Howden

Working Pressure 185 lb

Tested by hydraulic pressure to

Date of test

No. of Certificate

each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

at distance between boilers or uptakes and bunks 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

stages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

of plain part

top

Thickness of plates

crown

Description of longitudinal joint

No. of strengthening rings

bottom

bottom

Thickness of plates

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

End plates in steam space:

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of stays

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of Front plates at bottom

Area at smallest part

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

across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

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

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

Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 Connecting rod top end bolts + nuts  
2 Connecting rod bottom end bolts + nuts 2 Main bearing  
bolts + nuts. 1 Set coupling bolts + nuts. 1 Set feed pump  
valves. 1 Set bilge pump valves. 1 Set piston rings for  
cylinder. 1 Set air pump valves. 1 Set circulating pump  
valves. 1 Propeller

The foregoing is a correct description,

Canadian Mills Chalmers Ltd Manufacturer.

Dates of Survey while building { During progress of work in shops -- } Feb. 20. 26. Mar. 6. 8. 15. 23. 28. April 3. 12. 14. 20. 22. 24. 26. 30. May. 2. 6. 8. 16.  
{ During erection on board vessel -- }  
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 22. 4. 18 Slides 22. 4. 18 Covers 6. 5. 18 Pistons 6. 5. 18 Rods 6. 5. 18

Connecting rods 2. 5. 18 Crank shaft 2. 8. 18 Thrust shaft 2. 5. 18 Tunnel shafts 2. 5. 18 Screw shaft 2. 5. 18 Propeller

Stern tube 23. 3. 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

Material of Crank shaft ~~OH Steel~~ Identification Mark on Do. 336. 2. 5. 18 Material of Thrust shaft ~~OH Steel~~ Identification Mark on Do. 337. 2. 5. 18

Material of Tunnel shafts ~~OH Steel~~ Identification Marks on Do. 339. 2. 5. 18 Material of Screw shafts ~~OH Steel~~ Identification Marks on Do. 340. 2. 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. This machinery has been constructed under Special Survey. It is of good material + workmanship and is eligible in our opinion for record with date when the survey is completed. It has now been shipped to Vancouver to be fitted in a wooden vessel

To complete the survey: Engines to be fitted and secured on board with auxiliaries + connections according to the Rules

Transmit to Vancouver  
RMS

The amount of Entry Fee ... £ 15 : 00 :  
Special ... £ 60 : 00 :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, May 15. 1918  
When received, 27. 3. 19

Robert C. Blyth & Son, Ld. Engineers  
Engineer Surveyor to Lloyd's Register of Shipping

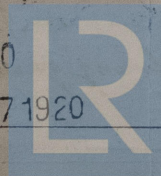
Committee's Minute

TUE 11 FEB. 1916

TUE MAY. 4 1920

Assigned

TUE. APR. 27 1920



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Foundation