

REPORT ON MACHINERY.

REC'D NEW YORK June 1918

Received at London Office

Date of writing Report June 15 1918 When Added in at Local Office June 15 1918 Port of Toronto

To in Survey held at Godrich Ont.

Date, First Survey Aug 9th 17 Last Survey May 27th 1918

Reg. Book.

(Number of Visits 19)

on the J.M.B. Inguis R25 War Steamer

Gross 2334.82
Net 1415.68
When built 1918

Master J.L. Howell. Built at Victoria

By whom built Cameron, Genoa Mill

Engines made at Godrich

By whom made National S.B. Co.

when made 1918

Boilers made at Toronto

By whom made Tolson Iron Works

when made 1918

Registered Horse Power 1400

Owners Causton Greig & Co

Port belonging to Victoria B.C.

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 Inverted triple expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 20-33-54 Length of Stroke 40 Revs. per minute Dia. of Screw shaft as per rule 11 1/2 Material of screw shaft as fitted 12 steel

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 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 If two

screws are fitted, is the shaft lapped or protected between the liners Length of stern bush 4'-1"

Dia. of Tunnel shaft as per rule 10 3/4 Dia. of Crank shaft journals as per rule 10 9/16 Dia. of Crank pin 1 1/2 Size of Crank webs 22x7 Dia. of thrust shaft under

screws 1 1/2 Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

No. of Feed pumps 2 Diameter of ditto 35 Stroke 20 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 35 Stroke 20 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

MILERS, &c.—(Letter for record) Manufacturers of Steel 3 Element

Total Heating Surface of Boilers 52804 Is Forced Draft fitted Yes No. and Description of Boilers 2 Howden Patent

Working Pressure 185 lbs. Tested by hydraulic pressure to Date of test No. of Certificate

Can 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

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

Thickness 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

Percentages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell

No. and Description of Furnaces in each boiler Material Outside diameter

Length of plain part Thickness of plates Description of longitudinal joint No. of strengthening rings

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes 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

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

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—Two top end bolts & nuts, Two bottom end bolts & nuts, Two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of circulating pump valves, one set of air pump valves, one set of feed & one set of bilge pump valves, 25 condenser tubes, one set of piston rings, assorted bolts & nuts.

The foregoing is a correct description,

THE NATIONAL SHIPBUILDING COMPANY, LIMITED

P. Corrie

SECY-TREAS

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } Aug 9 Nov 14 Dec 15 Jan 1 25 31 Feb 15 Mar 6 18 24 26 Apr 10 21 29 May 2 3 14 26 27
{ During erection on board vessel - - - }
Total No. of visits 19

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders Apr 28 Slides Apr 28 Covers May 25 Pistons May 25 Rods
Connecting rods Apr 28 Crank shaft Apr 29 Thrust shaft Tunnel shafts Screw shaft Propeller
Stern tube Jan 31 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 Identification Mark on Do. Material of Thrust shaft Identification Mark on Do.
Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.
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 Yes If so, state name of vessel R 24.

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been constructed under special survey, is of good material & workmanship & will be eligible for renewal with date when the survey is completed. It has been shipped to Vancouver to be fitted in a motor vessel.

To complete the survey: Engines to be fitted & secured & tested with auxiliary & main machinery according to the Rules.

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

The amount of Entry Fee ... \$ 15 : 00 :
Special ... £ 60 : 00 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ 89 : 75 :
When applied for, June 11 1918
When received, 17-4-19

Committee's Minute

Assigned

TUE 8-APR. 1919

See Vic A.C. 41 No 801

John B. Gwynne

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 22 AUG. 1919

TUE. 10 FEB. 1920

FRI. 12 JUL. 1919

FRI. APR. 10 1921

TUE. OCT. 12 1920

TUE. 19 JUL. 1921

Lloyd's Register
Foundation