

REC'D NEW YORK ^{Mon. 13-1918}
REPORT ON MACHINERY.

No. 41

Received at London Office

REC'D NEW YORK ^{June} ~~May 23~~ ¹⁹¹⁸ ~~1918~~ ^{May 29} 1918 Port of Toronto
Survey held at Toronto Date, First Survey Aug 27/17 Last Survey 19
(Number of Visits)

Survey held on the S.M.B. R.N. 4 "Wai Babine" Tonnage { Gross 2341.81
Net 1417.81
Built at Victoria B.C. By whom built Foundation Co. When built 1918

Made at Toronto By whom made Polson Iron Works when made 1918
Made at _____ By whom made _____ when made _____

Horse Power 1400 Owners Easton Greig & Co (Glasgow) Port belonging to Victoria
Horse Power as per Section 28 313.6 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
Cylinders 20 1/2 x 33 x 5 1/2 Length of Stroke 36 Revs. per minute 87 Dia. of Screw shaft 11.4 Material of screw shaft Ch. Steel
as per rule 11.4 as fitted 11.5

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
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

The bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If two
are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 3'-10"

Shaft Tunnel shaft 10 3/4 Dia. of screw 14'-0" Pitch of Screw 14'-0" No. of Blades 4 State whether moveable Solid Total surface 64 sq ft
Dia. of Crank shaft journals 10 3/4 as per rule 10 3/4 Dia. of Crank pin 11 Size of Crank webs 8" x 20 Dia. of thrust shaft under

Feed pumps 2 Diameter of ditto 10 1/2" Stroke 12 Can one be overhauled while the other is at work
Bilge pumps 2 Diameter of ditto 5 1/4" Stroke 5 Can one be overhauled while the other is at work

Donkey Engines _____ Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps
In Holds, &c. _____

Bilge Injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate Donkey Suction fitted in Engine room & 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 _____
Are the Discharge Pipes above or below the deep water line _____

Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
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 _____

Engines, &c.—(Letter for record _____) Manufacturers of Steel _____
Heating Surface of Boilers 5270 sq ft Is Forced Draft fitted yes No. and Description of Boilers 2 Howden

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

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 _____ Description of longitudinal joint _____ No. of strengthening rings _____
Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____

Working pressure of furnace by the rules _____ Working pressure by rules _____ End plates in steam space: _____
If stays are fitted with nuts or riveted heads _____

Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of stays _____
How are stays secured _____ Working pressure by rules _____

Material of Front plates at bottom _____ Working pressure of plate by rules _____
Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____

Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
Girders to Chamber tops: Material _____ Depth and _____

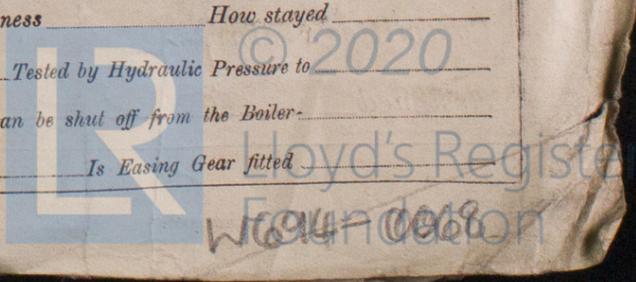
Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____
% of strength of joint _____

Steam dome: description of joint to shell _____ Diam. of rivet holes _____
Thickness of shell plates _____ Material _____ Description of longitudinal joint _____

Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____
Tested by Hydraulic Pressure to _____

Superheater. Type _____ Date of Approval of Plan _____
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 _____

Two
sets & Nuts
Set of
size
Propeller
Horse Power
ES, &c.—
Cylinders
screw shaft
propeller boss
the bearings
e fitted,
unnel shaft
led herewith
25
Propeller
on bolts
Oct 7th 1918
June 13th
5700 SALES
1914
Mark on Do. 13-5-11
Marks on Do. 16-5-11
M
Compensating
Non Speed
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Material an
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Corrected
my opinion
to the C
New York April 1918
h.
Register of Shipping.
1919
JUL. 1919
1920



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 springs
2 Iron rods of each size 1/2"-5/8"-3/4"-7/8"-1-1/8" all 10 ft long
50 Assorted bolts + nuts 1 Propeller.

The foregoing is a correct description,

POLSON IRON WORKS LIMITED

A. W. [Signature]
Manager & Secy

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } Aug. 27. Sept. 10. 21. 24. 27 Oct 22. 26. Nov. 9. 14. 20. 28. Dec 5. 7. 12. 17. 21. 26.
{ During erection on board vessel -- } Jan. 4. 5. 15. 17. 19. 31. Feb 6. 8. 9. 14. 16. 22. 25. Mar 5. 9. 19. 23. 25. April 11. 15. 25. May 1. 4. 13. 16. 25
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 15. 4. 18 Slides 1. 5. 18 Covers 15- 4- 18 Pistons 1. 5. 18 Rods 1. 5. 18
Connecting rods 1. 5. 18 Crank shaft 13. 5. 18 Thrust shaft 13. 5. 18 Tunnel shafts 1. 5. 18 Screw shaft 16. 5. 18 Propeller 16. 5. 18
Stern tube 21. 12. 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 *0.4 Steel* Identification Mark on Do. 342. 13. 5. 18 Material of Thrust shaft *0.4 Steel* Identification Mark on Do. 343. 13. 5. 18
Material of Tunnel shafts *0.4 Steel* Identification Marks on Do. 335. 1. 5. 18 Material of Screw shafts *0.4 Steel* Identification Marks on Do. 344. 16. 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 for completion
[Signature]

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 ... \$ 59 : 50 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, May 28th 1918
When received, 28/6/19

Robert C. Blyth
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned

TUE. 10 DEC. 1918

10th 10 MAR. 1919

TUE. 22 JUL. 1919

FRI. AUG 20 1919



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