

Date of writing Report April 27, 1914, when handed in at Local Office April 25, 1914, Port of PORT ARTHUR, ONTARIO.

Survey held at Port Arthur, Ontario. Date, First Survey January 6th Last Survey Dec. 22 1913.  
Package (Number of Visits 250)  
on the single screw steel passenger & Freight steamer "Noronic" Tons { Gross 6905.18  
Net 3935.46  
Built at Port Arthur, Ont. By whom built Western Dry Dock & S. B. Co. When built 1913.  
By whom made American Shipbuilding Company, when made 1913.  
By whom made Western Dry Dock & Shipbuilding Co. when made 1913.  
Registered Horse Power 328.48 Owners Northern Navigation Company Ltd. Port belonging to Port Arthur.  
Nom. Horse Power as per Section 28 805 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted YES

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders FOUR No. of Cranks Four  
Dia. of Cylinders 29.5-17.5-58-58 Length of Stroke 42 Revs. per minute 120 Dia. of Screw shaft as per rule 15.77 Material of STEEL  
as fitted 15.75 screw shaft  
Is the screw shaft fitted with a continuous liner the whole length of the stern tube NONE Is the after end of the liner made water tight  
in the propeller boss — If the liner is in more than one length are the joints burned — 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  
liners are fitted, is the shaft lapped or protected between the liners — Length of stern bush 5'-4"  
Dia. of Tunnel shaft as per rule 14 Dia. of Crank shaft journals as per rule 14.75 Dia. of Crank pin 14.75 Size of Crank web 9.25 Dia. of thrust shaft under  
as fitted None as fitted 14.75 collars 14.75 Dia. of screw 16.5 Pitch of Screw 17'-0" No. of Blades FOUR State whether moveable YES Total surface 87 Square Feet.  
No. of Feed pumps Two Diameter of ditto 12.48 Stroke 24 Can one be overhauled while the other is at work YES  
No. of Bilge pumps ONE Diameter of ditto 5 Stroke 13.25 Can one be overhauled while the other is at work YES  
No. of Donkey Engines EIGHT Sizes of Pumps See Back of page No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room Bilge 15.5"x 27" Ballast 2-12-16"x 18" In Holds, &c. Donkey 4" and Ballast 6"  
Mates 6"-4"x 6" Gen. Service 12"-6"x 12"

No. of Bilge Injections TWO sizes 6" Connected to condenser, or to circulating pump — Is a separate Donkey Suction fitted in Engine room & size 4"  
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 VALVES.  
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates NO 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 YES  
What pipes are carried through the bunkers WATER PIPES How are they protected by Steel casing.  
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.  
Dates of examination of completion of fitting of Sea Connections June 1913. of Stern Tube June 1913 Screw shaft and Propeller June 1913.  
Is the Screw Shaft Tunnel watertight NONE Is it fitted with a watertight door \*\*\*\*\* worked from \*\*\*\*\*

BOILERS, &amp;c.—(Letter for record 28/8/13) Manufacturers of Steel Worth Brothers Company, Coatsville, Pa.

Total Heating Surface of Boilers 13128 Is Forced Draft fitted YES No. and Description of Boilers Five Scotch Type.  
Working Pressure 200 lbs Tested by hydraulic pressure to 300 lbs Date of test Aug. 29/13 No. of Certificate See Letter  
Can each boiler be worked separately YES Area of fire grate in each boiler 66 Sq. Ft. No. and Description of Safety Valves to  
each boiler One 3" Twin Area of each valve 14.135 Pressure to which they are adjusted 200 lbs. Are they fitted with easing gear Yes.  
Smallest distance between boilers or uptakes and bunkers or woodwork No Wood. Mean dia. of boilers (4) 15'-6" Length 11'-0" Material of shell plates Steel.  
Thickness 1.606 Range of tensile strength 62720 Min. Are the shell plates welded or flanged ENDS Descrip. of riveting: cir. seams Single  
71680 Max. long. seams Triple Diameter of rivet holes in long. seams 1.594 Pitch of rivets 9.375 Lap of plates or width of butt straps 23.25  
Per centages of strength of longitudinal joint rivets 83.0 Working pressure of shell by rules 230.7 Size of manhole in shell 11"x 15"  
Size of compensating ring 33"x 34.5"x 1.618 No. and Description of Furnaces in each boiler 3 Morrison Sus Material Steel Outside diameter 52"  
Length of plain part top 11.25 bottom 10.5 Thickness of plates 1.72 Description of longitudinal joint NONE No. of strengthening rings None.  
Working pressure of furnace by the rules 241.9 Combustion chamber plates: Material STEEL Thickness: Sides .625 Back .625 Top .563 Bottom .625  
Pitch of stays to ditto: Sides 7.625 x Back 6.75 x Top 7.625 x stays are fitted with nuts or riveted heads NUTS Working pressure by rules 204.1  
Material of stays STEEL Diameter at smallest part 1.375 Area supported by each stay 53.375 Working pressure by rules 220.9 End plates in steam space:  
Material STEEL Thickness 1.062 Pitch of stays 14"x 14" How are stays secured Db1 Nuts Working pressure by rules 273.4 Material of stays STEEL  
Diameter at smallest part 2.25 Area supported by each stay 196 Sq. Working pressure by rules 210.6 Material of Front plates at bottom STEEL.  
Thickness .85 Material of Lower back plate STEEL Thickness .75 Greatest pitch of stays 12.5 x 6.75 Working pressure of plate by rules 241.7  
Diameter of tubes 2.75 Pitch of tubes 3.75 x 3.938 Material of tube plates STEEL Thickness: Front .85 Back .687 Mean pitch of stays 6.75  
Pitch across wide water spaces 13.5 Working pressures by rules 235.2 Girders to Chamber tops: Material STEEL Depth and  
thickness of girder at centre 9.5 x .75 Length as per rule 34 Distance apart 7 Number and pitch of stays in each 3- 7.625  
Working pressure by rules 229.8 Superheater or Steam chest; how connected to boiler NONE Can the superheater be shut off and the boiler worked  
separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet  
holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed  
Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear



# VERTICAL DONKEY BOILER—Manufacturers of Steel

No. \_\_\_\_\_ Description \_\_\_\_\_

Made at \_\_\_\_\_ By whom made \_\_\_\_\_ When made \_\_\_\_\_ Where fixed \_\_\_\_\_

Working pressure \_\_\_\_\_ tested by hydraulic pressure to \_\_\_\_\_ Date of test \_\_\_\_\_ No. of Certificate \_\_\_\_\_ Fire grate area \_\_\_\_\_ Description of Safety \_\_\_\_\_

Valves \_\_\_\_\_ No. of Safety Valves \_\_\_\_\_ Area of each \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_ Date of adjustment \_\_\_\_\_

If fitted with easing gear \_\_\_\_\_ If steam from main boilers can enter the donkey boiler \_\_\_\_\_ Dia. of donkey boiler \_\_\_\_\_ Length \_\_\_\_\_

Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_ Range of tensile strength \_\_\_\_\_ Descrip. of riveting long. seams \_\_\_\_\_

Dia. of rivet holes \_\_\_\_\_ Whether punched or drilled \_\_\_\_\_ Pitch of rivets \_\_\_\_\_ Lap of plating \_\_\_\_\_ Per centage of strength of joint \_\_\_\_\_ Rivets \_\_\_\_\_ Plates \_\_\_\_\_

Working pressure of shell by rules \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ No. of stays to do. \_\_\_\_\_ Dia. of stays \_\_\_\_\_

Diameter of furnace Top \_\_\_\_\_ Bottom \_\_\_\_\_ Length of furnace \_\_\_\_\_ Thickness of furnace plates \_\_\_\_\_ Description of joint \_\_\_\_\_

Working pressure of furnace by rules \_\_\_\_\_ Thickness of furnace crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ Stayed by \_\_\_\_\_

Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_ Dates of survey \_\_\_\_\_

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Western Dry Dock & S.B.Co. Manufacturer.

*St Wallace Trigg*

Dates of Survey: During progress of work in shops -- July 6/12. Sept. 13/12, 24/12. Oct 1/12, 2/12, 4/12, 28/12 and Nov. 13/12.  
During erection on board vessel -- January 6/13 and continuous until Dec. 22/13.  
Total No. of visits 8 in shops and 250 erecting ship

Dates of Examination of principal parts—Cylinders 9/24/12 Slides 9/24/12 Covers 9/24/12 Pistons 9/24/12 Rods 10/24/12  
Connecting rods 10/24/12 Crank shaft 9/24/12 Thrust shaft 10/24/12 Tunnel shafts NONE Screw shaft 9/3/12 Propeller June/13.  
Stern tube 6/13. Steam pipes tested 11/1/13. Engine and boiler seatings 4/13. Engines holding down bolts 11/4/13.  
Completion of pumping arrangements 10/15/13 Boilers fixed 9/13. Engines tried under steam 11/24/13.  
Main boiler safety valves adjusted 11/24/13; Thickness of adjusting washers Five eighths of an inch.  
Material of Crank shaft Steel Identification Mark on Do. F 90 Material of Thrust shaft Steel Identification Mark on Do. F 90  
Material of Tunnel shafts None Identification Marks on Do. none Material of Screw shafts Steel Identification Marks on Do. F 90  
Material of Steam Pipes Steel Test pressure 300lbs.

General Remarks (State quality of workmanship, opinions as to class, &c.)

PUMPS: Two feed 12"- 8"x 24" Stroke, Sanitary 7.5"- 8.5"x 10" Stroke, Two ballast 12"- 16"x 18",  
General Service, Ash and Fire 12"- 6"x 12", Mates 6"- 4"x 6" Stroke, Hot water 5"- 6"x 6"  
Cold water 5.5"- 6"x 6" stroke, Bilge pump attached to Engine 5"- 6"x 13.5" Stroke.

& Boilers,  
These Engines have been built under Special Survey in accordance with the Rules and approved plan  
& Boilers,  
The workmanship and materials are good and the Engines will be eligible in my opinion, to  
receive the Notation + L M C 100, Port Arthur, Ont. 5/14.

It is submitted that  
this vessel is eligible for  
THE RECORD + L M C 12 13. F.D.

Signed. *S. Brisbin* Engineer,  
Mr. S. Brisbin is a reliable and experienced Engineer.

*Robert Carr*

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

The amount of Entry Fee .. \$ 15.00  
Special .. £ 300.00  
Donkey Boiler .. £  
Travelling Expenses (if any) £

Committee's Minute

FRI. MAY. 15. 1914

TUE. MAY. 19. 1914

Assigned

+ L M C 12, 13

DOCUMENT CERTIFIED  
WRITTEN 19.5.14

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Foundation