

Rpt. 5.

REPORT ON BOILERS.

No. 149.
WED. FEB. 4 1921

Received at London Office

Date of writing Report **FEB 23** 1920 When entered in at Local Office **FEB 26** 1920 Port of **TORONTO**
No. in Survey held at **TORONTO** Date, First Survey **OCT 24. 1919** Last Survey 191
Reg. Book. **"Winner"** (Number of Visits) Gross
on the **CANADIAN HARBOUR** Tons Net
Master **W. Wingate** Built at **Victoria B.C.** By whom built **HARBOUR MARINE CO LTD** When built **1920**
Engines made at **TORONTO** By whom made **THE JOHN INGLIS CO LTD** When made **1920**
Boilers made at **TORONTO** By whom made **THE JOHN INGLIS CO LTD.** When made **1920**
Registered Horse Power **521.** Owners **CANADIAN MERCHANT MARINE CO** Port belonging to **Montreal**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **CARNEGIE & ILLINOIS STEEL CO**

(Letter for record **35B.**) Total Heating Surface of Boilers **7743** Is forced draft fitted **YES** No. and Description of

Boilers **3 CYLINDRICAL MULTITUBULAR.** Working Pressure **180** Tested by hydraulic pressure to Date of test

No. of Certificate Can each boiler be worked separately **YES** Area of fire grate in each boiler **66.12** No. and Description of

safety valves to each boiler **2 SPRING LOADED** Area of each valve **9.62** Pressure to which they are adjusted

Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers **15.6"** Length **11'-6"**

Material of shell plates **O. H. S** Thickness **1.375** Range of tensile strength **28 to 32** Are the shell plates welded or flanged **NO**

Descrip. of riveting: cir. seams **DOUBLE** long. seams **TREBLE** Diameter of rivet holes in long. seams **1.375** Pitch of rivets **9.187**

width of butt straps **20"** Per centages of strength of longitudinal joint rivets **87.4** Working pressure of shell by plate **85.**

rules **200** Size of manhole in shell **12 x 16** Size of compensating ring **37.5 x 33** No. and Description of Furnaces in each boiler **3 CORRUGATED** Material **O. H. S** Outside diameter **50.25** Length of plain part top **19** Thickness of plates bottom **32**

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules **187** Combustion chamber

plates: Material **O. H. S** Thickness: Sides **5/8** Back **5/8** Top **5/8** Bottom **15/16** Pitch of stays to ditto: Sides **7.5 x 9** Back **8 x 8.25**

Top **9 x 7.5** If stays are fitted with nuts or riveted heads **BOTH.** Working pressure by rules **200** Material of stays **O. H. S** Diameter at

smallest part **1.76** Area supported by each stay **66** Working pressure by rules **210** End plates in steam space: Material **O. H. S** Thickness **1 1/16**

Pitch of stays **18 x 15** How are stays secured **2 NUTS** Working pressure by rules **185** Material of stays **O. H. S** Diameter at smallest part **5.27**

Area supported by each stay **270** Working pressure by rules **270** Material of Front plates at bottom **O. H. S** Thickness **13/16** Material of

Lower back plate **O. H. S** Thickness **13/16** Greatest pitch of stays **12"** Working pressure of plate by rules **200** Diameter of tubes **3"**

Pitch of tubes **4.25** Material of tube plates **O. H. S** Thickness: Front **13/16** Back **3/4** Mean pitch of stays **8.5 x 12.75** Pitch across wide

water spaces **13.5** Working pressures by rules **180** Girders to Chamber tops: Material **O. H. S.** Depth and thickness of

girder at centre **10.** **1.5** Length as per rule **30.5** Distance apart **9.5** Number and pitch of Stays in each **3** **7.5**

Working pressure by rules **120** Superheater or Steam chest: how connected to boiler 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—

No. Description Manufacturers of steel

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 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 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

The foregoing is a correct description,

John Inglis & Co Ltd Manufacturer.

Dates of Survey while building During progress of work in shops -- Oct. 24 Nov. 21. 27 Dec. 6. 8. 22. 27 JAN 2. 6. 12. 13. 19. 22. 30 FEB 3. 4. 6. 9. 11. 14. 17. 18 21. 23.
During erection on board vessel ---
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

THESE BOILERS HAVE BEEN CONSTRUCTED UNDER SPECIAL SURVEY.
AND ARE OF GOOD MATERIAL & WORKMANSHIP.
ALL PARTS HAVE BEEN FITTED & BOLTED TOGETHER, EXCEPTING
THAT FURNACES, WING STAYS - BACK STAYS & THROUGH STAYS
HAVE NOT BEEN FITTED.
THE COMBUSTION CHAMBERS ARE RIVETED & CAULKED, AND
SCREWED STAYS BETWEEN CHAMBERS COMPLETED.
THE BOILER MOUNTINGS HAVE BEEN EXAMINED & FITTED
IN PLACE. NO INTERNAL STEAM PIPE IS FITTED
THESE BOILERS HAVE BEEN DISMANTLED AND SHIPPED TO
B.C FOR COMPLETION

Rpt. 13.

RE
Port of Van
No. in on the
Reg. Book Built
Owners Can
Yard No. 1

DESCRIPTION OF
1-10KW
Dyna
Capacity of Dyna
Where is Dyna
Position of Main
Positions of aux
Motor,
E Cargo

If fuses are fitted
circuits
If vessel is wired
Are the fuses of
Are all fuses fitted
are permanent
Are all switches
Total number of
A 16
B Motor & w
C 33
D 42
E 14
F 67 Lamp
Mast h
2
5

If are lights, wh

Where are the

DESCRIPTION
Main cable carry
Branch cables co
Branch cables ca
Leads to lamps co
Cargo light cables

DESCRIPTION
All cab
armor
Joints in cables,
made

Are all the joints
positions, n

Are there any jo
How are the cab

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 .. £	:	:	When applied for,
Special £76.75	:	:	FEB 25 1920
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £	:	75	FEB 28 1920

Committee's Minute FRI. 17 APR. 1921
Assigned See R.C. report

Alexander Scott

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



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Foundation