

# REPORT ON BOILERS.

No. 150  
MON. 23 MAY. 1921

Received at London Office

Report AP. 20 1920 When handed in at Local Office AP. 23 1920 Port of TORONTO  
Survey held at TORONTO Date, First Survey OCT. 24 1919 Last Survey AP. 20 1920  
the (Number of Visits) Tons } Gross  
Net  
Built at By whom built HARBOR MARINE When built 1920  
le at TORONTO By whom made JOHN INGLIS & CO. LTD. When made 1920  
e at TORONTO By whom made JOHN INGLIS & CO. LTD. When made 1920  
Horse Power 521 Owners CANADIAN MERCHANT MARINE Port belonging to

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

record 3SB. ) Total Heating Surface of Boilers 7743 Is forced draft fitted YES No. and Description of

CYLINDRICAL MULTITUBULAR Working Pressure 180 Tested by hydraulic pressure to Date of test

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

s to each boiler 2 SPRING LOADED Area of each valve 7.62 Pressure to which they are adjusted

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

stance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 15'-6" Length 11'-6"

shell plates O.H.S. Thickness 1.375 Range of tensile strength 28632 Are the shell plates welded or flanged NO

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

Size of manhole in shell 12 x 16 Size of compensating ring 37.5 x 33 No. and Description of Furnaces in each

WRUGATED Material O.H.S. Outside diameter 50.25 Length of plain part top ✓ Thickness of plates crown 19 bottom ✓ bottom 32

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

aterial O.H.S. Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 5/8 Pitch of stays to ditto: Sides 7.5 x 9 Back 8 x 8.25

5 If stays are fitted with nuts or riveted heads BOTH Working pressure by rules 200 Material of stays O.H.S. Diameter at

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

ys 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

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

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

bes 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

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

entre 10 1.5 Length as per rule 30.5 Distance apart 9.5 Number and pitch of Stays in each 3 7.5

pressure by rules 230 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

**AL DONKEY BOILER—** No. Description Manufacturers of steel

By whom made When made Where fixed Working pressure

draulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

key boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

ing Per centage of strength of joint Rivets: Working pressure of shell by rules Thickness of shell crown plates

No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

water tubes

The foregoing is a correct description,

THE JOHN INGLIS CO., LIMITED

Manufacturer.

Campbell

SECY-TREAS.

1919 OCT. 24, Nov. 21, 27, DEC. 6, 8, 22, 27, 1920 JAN. 2, 6, 12, 13, 19, 22, 30, FEB. 3, 4, 6, 9, 11, 14, 17, 18, 23, 25, 27,

Mar. 1, 2, 3, 6, 10, 11, 15, 17, 19, 25, 29, 31, AP. 5, 8, 12, 14, 19, 20.

During erection on board vessel - - -

Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " "



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Foundation

W 389-0146



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

THESE BOILERS HAVE BEEN CONSTRUCTED UNDER SPECIAL SURVEY AND ARE OF GOOD MATERIAL AND WORKMANSHIP.

ALL PARTS HAVE BEEN FITTED AND BOLTED TOGETHER, EXCEPTING THAT WING STAYS, BACK STAYS, THROUGH STAYS AND TUBES HAVE NOT BEEN FITTED.

THE COMBUSTION CHAMBERS ARE RIVETED AND CAULKED, AND SCREWED STAYS BETWEEN CHAMBERS COMPLETED.

THE BOILER MOUNTINGS HAVE BEEN EXAMINED AND FITTED IN PLACE

NO INTERNAL STEAM PIPE IS FITTED.

THE BOILERS HAVE BEEN DISMANTLED & SHIPPED TO B.C. FOR COMPLETION

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 :	AP. 22. 1920
Donkey Boiler Fee	.. .. .	£	:	When received,
Travelling Expenses (if any)	£	1 : 45 :		1/5/20

Committee's Minute

TUE. MAY. 31 1921

Assigned

See minute on Vcr 866

Alexander Scott

Engineer Surveyor to Lloyd's Register of Shipping.

TUE. NOV. 1 1921



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