

Rpt. 4.

REPORT ON MACHINERY

No. 158

WED. FEB. 21 1921

Date of writing Report June 17 1920 When handed in at Local Office June 18 1920 Port of Toronto
No. in Survey held at Toronto
Reg. Book. on the Harbour Marine No. 1 Canadian Winner
Master W. Wingate, Built at Victoria B.C. By whom built Harbour Marine Co
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 Owners Canadian Merchant Marine Ltd. Port belonging to Montreal
Nom. Horse Power as per Section 28 521. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Inertia Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 27 44 73 Length of Stroke 48 Revs. per minute Dia. of Screw shaft as per rule 14.63 as fitted 15.5 Material of screw shaft A.H.S.
Is 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
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
Dia. of Tunnel shaft as per rule 13.3 as fitted 14.5 Dia. of Crank shaft journals as per rule 13.97 as fitted 14.5 Dia. of Crank pin 4.5 Size of Crank webs 9x28 Dia. of thrust shaft under
collars 14.5 Dia. of screw 17.6 Pitch of Screw 18-9 No. of Blades State whether moveable Total surface
No. of Feed pumps 2 Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 4 Stroke 24 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
In 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
What pipes are carried through the bunkers 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

BOILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
Working Pressure 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
each 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
long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:
Material of stays Area at smallest part Area supported by each stay Working pressure by rules Material of stays
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom
Area at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules
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
Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
thickness of girder at centre 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
Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

W1301-0087

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

2 main bearing bolts & nuts
2 Connecting rod top end bolts & nuts
2 do do bottom
1 set Coupling bolts & nuts
1 set Sea & bilge pump valves.
1 set A.P. piston rings. 1 piston valve.

The foregoing is a correct description,

John Inglis & Co. Ltd. Manufacturer.
1919.
June 9, Oct. 24, Nov. 21, 27, Dec. 6, 22, 27, Jan. 24, 29, 31, Feb. 3, 4, 6, 9, 11, 14, 17, 18, 24, 25, 27, March, 1, 2, 3, 8, 10, 11, 15, 17, 19, 23, 29, 30, 31
Ap. 5, 8, 23, 26, 29, 29, May 3, 5, 7, 11, 14, 19, 20, 25, June 2, 7, 10, 12.
Dates of Survey while building { During progress of work in shops --
During erection on board vessel --
Total No. of visits
Is the approved plan of main boiler forwarded herewith
" " " donkey " " "
Dates of Examination of principal parts—Cylinders 8. 4. 20 Slides 10. 6. 20 Covers 8. 4. 20 Pistons 28. 5. 20 Rods 7. 6. 20
Connecting rods 18. 5. 20 Crank shaft 12. 6. 20 Thrust shaft 12. 6. 20 Tunnel shafts 15. 3. 20 Screw shaft 23. 2. 20 Propeller
Stern tube 24. 2. 20 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 A.S.S. Identification Mark on Do. 1576/2. 6. 20 Material of Thrust shaft A.S.S. Identification Mark on Do. 1577/2. 6. 20
Material of Tunnel shafts A.S.S. Identification Marks on Do. 1541-2. 3. 4. 5. 6. Material of Screw shafts A.S.S. Identification Marks on Do. 1539, 13. 2. 20
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 No. 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 and workmanship, and will be eligible
for record + L.M.C. when properly fitted and tested in Vessel.

Eng. Stop and Throttle valves. - Indicator Cocks - Atmospheric valve
on Air pump. - and Springs for escape valves not fitted
previous to Shipment.

The amount of Entry Fee ... £ : : When applied for,
Special ... £ 76 : 75 : June 17 1920
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ 1 : 35 : June 19 1920

Committee's Minute

FRI. 1 APR. 1921

Assigned

See 76 report

Alexander Scott

Engineer Surveyor to Lloyd's Register of Shipping.

Rpt. 5.

Date of writing Report

No. in Survey held
Reg. Book.

on the

Master W. Wing

Engines made at

Boilers made at

Registered Horse Power

MULTITUBULAR

(Letter for record

Boilers 3 Cylinders

No. of Certificate

safety valves to each

Are they fitted with

Smallest distance betw

Material of shell pl

Descrip. of riveting:

width

rules 200

boiler 3 CORRUGA

Description of longitu

plates: Material 0.1

Top 9x7.5 If stay

smallest part 1.76

Pitch of stays 18x

Area supported by

Lower back plate 0.

Pitch of tubes 4.2

water spaces 13

girder at centre 10

Working pressure by

separately

holes Pitch of

If stiffened with ring

Working pressure o

VERTICAL D

Made at

tested by hydraulic p

No. of safety valves

enter the donkey boi

strength Des

Lap of plating

Radius of do.

Thickness of furnac

plates

Thickness of water

Dates of Survey while building

work in

During e

board v

Total N



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