

REPORT ON MACHINERY.

No. 1466

REC'D NEW YORK Dec. 12, 1919

Received at London Office

Date of writing Report Dec. 10

19 19

When handed in at Local Office Dec. 10

19 19

Port of Montreal

No. in Survey held at Montreal

Date, First Survey Jan. 22

Last Survey Dec. 6

TUE. DEC. 23, 1919

Reg. Book.

on the S.S. "CANADIAN SPINNER"

(Number of Vents 52)

Master J. Reith

Built at Montreal

By whom built Canadian Vickers Ltd.

Gross 5404

Tons Net 3330

When built 1919

Engines made at Montreal

By whom made Canadian Vickers Ltd

when made 1919

Boilers made at Montreal

By whom made Canadian Vickers Ltd

when made 1919

Registered Horse Power 266.5

Owners Canadian Government

Port belonging to Montreal

Nom. Horse Power as per Section 28 520

Is Refrigerating Machinery fitted for cargo purposes No.

Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines Triple Expansion Surface Condensing No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 27"-44"-73" Length of Stroke 48" Revs. per minute 75 Dia. of Screw shaft as per rule 14.567 Material of 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 Yes 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 5'6 1/2"

Dia. of Tunnel shaft as per rule 13.3"

Dia. of Crank shaft journals as per rule 13.96"

Dia. of Crank pin 14.5" Size of Crank webs 52x28x9 Dia. of thrust shaft under

collars 14.5" Dia. of screw 18.0" Pitch of Screw 15.9"

No. of Blades 4 State whether moveable Yes Total surface 95 sq

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 4 Sizes of Pumps 2 1/2" x 7" x 18" and 7" x 7" x 18" Ballast 10" x 14" x 24"

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 2-3 1/2"

In Holds, &c. Ballast 1-3" 1-4" 1-5" 2-3" 2-3" P. 2-3" S. 1-4" 2-3"

No. of Bilge Injections 1 sizes 9" Connected to condenser, or to circulating pump Yes

Is a separate Donkey Suction fitted in Engine room & size Yes 2-4"

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes

Are all connections with the sea direct on the skin of the ship Yes Are the sluices on Engine room bulkheads always accessible Yes

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes 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 None How are they protected

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

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top E.R. Platform

BOILERS, &c.—(Letter for record S.) Manufacturers of Steel Lukens Iron & Steel Co. Penn. U.S.A.

Total Heating Surface of Boilers 7743 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 3 Scotch type

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 14-5-19 No. of Certificate 59.

Can each boiler be worked separately Yes Area of fire grate in each boiler 66.12 sq ft No. and Description of Safety Valves to

each boiler 2 Spring loaded Area of each valve 8.3 sq in Pressure to which they are adjusted 184 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 16 in Mean dia. of boilers 15'6" Length 11'6" Material of shell plates S

Thickness 1 3/8" Range of tensile strength 26-28 TONS Are the shell plates welded or flanged No. Descrip. of riveting: cir. seams DR

Long. seams DBS. TR Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 3/8" Lap of plates or width of butt straps 19 7/8"

Per centages of strength of longitudinal joint rivets 87.4 plate 85.0 Working pressure of shell by rules 183 Size of manhole in shell 16x12"

Size of compensating ring 37 1/2 x 29 No. and Description of Furnaces in each boiler 3 Highlow Material S Outside diameter 4'2 1/4"

Length of plain part top bottom Thickness of plates crown bottom 17/32 Description of longitudinal joint Welded No. of strengthening rings

Working pressure of furnace by the rules 187 Combustion chamber plates: Material S Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8"

Pitch of stays to ditto: Sides 9" x 7 1/2" Back 8 1/4" x 8" Top 9" x 7 1/2" If stays are fitted with nuts or riveted heads Stub Working pressure by rules 197

Material of stays S Area at smallest part 1.76 sq in Area supported by each stay 68.6 sq in Working pressure by rules 230 End plates in steam space:

Material S Thickness 1 1/8" Pitch of stays 18" x 15" How are stays secured Stub Working pressure by rules 184 Material of stays S

Area at smallest part 5.27 sq in Area supported by each stay 270 sq in Working pressure by rules 204 Material of Front plates at bottom S

Thickness 1 3/8" Material of Lower back plate S Thickness 1 3/8" Greatest pitch of stays 13 1/2" x 8 1/4" Working pressure of plate by rules 187

Diameter of tubes 3 Pitch of tubes 4 1/2" Material of tube plates S Thickness: Front 1 3/8" Back 3/4" Mean pitch of stays 8 1/2" x 8 1/2"

Pitch across wide water spaces 13 1/2" Working pressures by rules 205 Girders to Chamber tops: Material S Depth and

Thickness of girder at centre 10" x 1 1/2" Length as per rule 2' 6 7/8" Distance apart 9" Number and pitch of stays in each 3-7 1/2"

Working pressure by rules 250 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

004721-004724-0179

Rpt. 13.

Manufacturer.

If fuses are fitted

28

REF

How are the cables



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