

Rpt. 4.

REPORT ON MACHINERY.

No. 13

REC'D NEW YORK

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of DETROIT, MICH.

No. in Survey held at WALKERVILLE, ONT.
Reg. Book.

Date, First Survey Nov. 14, 1914

Last Survey

19

on the Single Screw Wood Steamship "W. C. Brown"

(Number of Visits)

Tons

Gross 235.54

Net 142.28

When built

Master W. Kervahan Built at N. Westminster

By whom built N. Westminster Engine Co.

when made 1918

Engines made at WALKERVILLE, ONT.

By whom made John Inglis & Co. Ltd.

when made 1918

Boilers made at Toronto

Registered Horse Power 1300

Owners J. Cook & Sons (Limited)

Port belonging to N. Westminster

Nom. Horse Power as per Section 28 322

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 19x32x54

Length of Stroke 40

Revs. per minute 82

Dia. of Screw shaft as per rule 11.59

Material of screw shaft 3

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

Is 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 Yes

If two

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush 49

Dia. of Tunnel shaft as per rule 10.13

Dia. of Crank shaft journals as per rule 10.85

Dia. of Crank pin 11

Size of Crank webs 22x84

Dia. of thrust shaft under

bolts 11

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

herewith

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps 2

Diameter of ditto 8 1/2

Stroke 18

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

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

Are the pipes 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

MANIFOLDERS, &c.—(Letter for record)

Manufacturers of Steel

Working 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

Is each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Least distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Proportions of strength of longitudinal joint

Working pressure of shell by rules

Size of manhole in shell

No. and Description of Furnaces in each boiler

Material

Outside diameter

Thickness of plates

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Working pressure of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Area of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Working pressures by rules

Girders to Chamber tops: Material

Depth and

Distance apart

Number and pitch of stays in each

Steam dome: description of joint to shell

% of strength of joint

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Working pressure of shell by rules

Crown plates

Thickness

How stayed

REHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

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IS A DONKEY BOILER FITTED?

SPARE GEAR. State the articles supplied:—

If so, is a report now forwarded?

The foregoing is a correct description,

THE CANADIAN BRIDGE CO. Limited

L. A. Paddock

Manufacturer.

1917. 1918.
Dates of Survey while building { During progress of work in shops. - - - Nov. 14-20-26, Dec. 5-7-13-18-28, Jan. 15-16-23-29, Feb. 16-22-28, Mar. 5-14-20-28, Apr. 2-9-10-22, May 2-8-15-20-28
{ During erection on board vessel - - -
Total No. of visits DET. 33

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 2-5-18 Slides 2-5-18. Covers 2-5-18. Pistons 28-5-18 Rods 28-5-18 Propeller 28-5-18

Connecting rods 28-5-18 Crank shaft 2-5-18 Thrust shaft 2-5-18 Tunnel shafts 2-5-18 Screw shaft 28-5-18 Engines holding down bolts 28-5-18

Stern tube 28-5-18 Steam pipes tested Engine and boiler seatings Engines tried under steam

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 LLOYDS No 74. Identification Mark on Do. 5-18 J.F.R. Material of Thrust shaft S Identification Mark on Do. 5-18 J.F.R. Material of Screw shafts S Identification Marks on Do. 5-18 J.F.R.

Material of Crank shaft S Identification Marks on Do. 5-18 J.F.R. Material of Thrust shaft S Identification Marks on Do. 5-18 J.F.R. Material of Screw shafts S Identification Marks on Do. 5-18 J.F.R.

Material of Tunnel shafts S Identification Marks on Do. 5-18 J.F.R. Material of Screw shafts S Identification Marks on Do. 5-18 J.F.R.

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 If so, state name of vessel

Is this machinery duplicate of a previous case If so, state name of vessel

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

These Engines have been built under Special Survey, and in accordance with the Rules the materials and workmanship are sound and good.

Certificate (if required) to be sent to

The amount of Entry Fee ... \$15.00

Special Donkey Boiler Fee ... \$6.00

Travelling Expenses (if any) ... \$2.00

When applied for,

11 July 1918

When received,

27/7/19

TUE. 11 FEB. 1919

Committee's Minute

Assigned

FRI. 14 MAR. 1919

FRI. 9 MAY. 1919



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