

# REPORT ON MACHINERY.

No. 17571

Received at London Office

Date of writing Report 21<sup>st</sup> Nov 1919 When handed in at Local Office 28<sup>th</sup> Nov, 1919. Port of Greenock

Survey held at Greenock Date, First Survey 26<sup>th</sup> August, 1919. Last Survey 20<sup>th</sup> Nov, 1919. (Number of Visits 28.)

on the Steel Steamer Canadian Sonnet S.S. No 13

Master Built at Vancouver By whom built J. Coughlan & Co. When built

Engines made at Greenock By whom made John S. Winward & Co. when made 1919

Boilers made at By whom made when made

Registered Horse Power Owners Port belonging to

nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Triple Compound No. of Cylinders Three No. of Cranks Three

Dia. of Cylinders 27"-44"-75" Length of Stroke 48" Revs. per minute Dia. of Screw shaft as per rule Material of screw shaft as fitted

Is the screw shaft fitted with a continuous liner the whole length of the stern tube 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 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 Dia. of Crank shaft journals as per rule 13.99" Dia. of Crank pin 1 1/2" Size of Crank webs 22-9" Dia. of thrust shaft under

collars Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

No. of Feed pumps Two Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work Yes

No. of Bilge pumps Two 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

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Area of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

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

Material 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

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

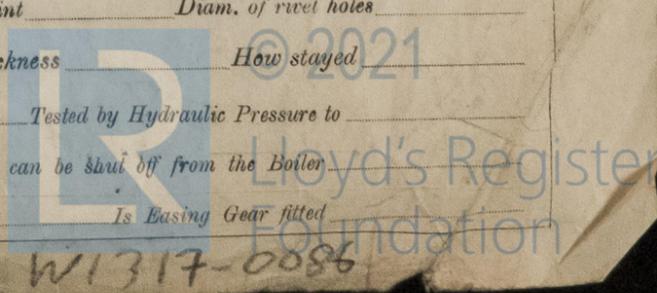
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

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

Winward & Co.



W1317-0086

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—The top end bolts. The bottom end bolts. The main bearing bolts, the cut coupling bolts. One cut dead screw & nut. One cut bridge screw & nut. One cut bridge valve springs. Bolts. Nuts &c

The foregoing is a correct description, FOR JOHN G. KINCAID & COY., LIMITED.

Robert Green

Manufacturer.

Dates of Survey while building: During progress of work in shops (1919) Aug 26. Sept 1. 3. 11. 15. 18. 19. 22. 26. Oct 1. 2. 6. 9. 10. 13. 15. 17. 20. 23. 27. 29. November 4. 6. 10. During erection on board vessel 12. 14. 17. 20. Total No. of visits 28.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts: Cylinders 14/10/19 Slides 27/10/19 Covers 14/10/19 Pistons 27/10/19 Rods 17/10/19 Connecting rods 15/10/19 Crank shaft 17/10/19 Thrust shaft Tunnel shafts Screw shaft Propeller Stern tube 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 Steel Identification Mark on Do. 360 Material of Thrust shaft Identification Mark on Do. Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do. 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 If so, state name of vessel

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

The machinery up to the end of the crank shaft has been constructed under special survey and the work compared with the specification

It has now been forwarded to Vancouver where it will be fitted on board

WED. 23 APR 1924

TUE FEB 27 1923

The amount of Entry Fee ... £ : : When applied for, from when 24/1/19 19.19 Special ... £ 50.- : : Donkey Boiler Fee ... £ : : Travelling Expenses (if any) £ : : When received, FRI 20 JUN 1924

FRI SEP 21 1923 James James Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 2 DEC 1919

Assigned FRI SEP 28 1923 London W.M.

TUE 29 MAY 1923 FRI 17 JUN 1921 TUES. 3 JUN 1924

FRI JUL 6 1923

FRI 9 MAR 1923

TUE 13 SEP 1921

TUE JUL 12 1921

Lloyd's Register Foundation

Greenock

Certificate (if required) to be sent to The Surveyors are requested not to write on or below the space for Committee's Minute.