

REPORT ON MACHINERY.

REC'D NEW YORK

Received at London Office

THU 19 1919

Date of writing Report 1919 When handed in at Local Office 1919 Port of Halifax N.S.

Survey held at Amherst N.S. Date, First Survey Dec. 19-1917 Last Survey Feb. 27 1919

on the "Wood. S.S. 'War Gaspo'" (Number of Visits)

Master A.S. Meek Built at Quebec By whom built Quinlan & Robakow Tons Gross 2268 Net 1367

Engines made at Amherst N.S. By whom made Robt Engineering Works Ltd when made 6-18

Boilers made at Montreal By whom made Canadian Sickers Ltd when made 1918

Registered Horse Power 146.8 Owners Imperial Munitions Board Port belonging to Quebec

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 20-33-54 Length of Stroke 40 Revs. per minute 70 Dia. of Screw shaft as per rule 11.8 Material of screw shaft Steel

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

the propeller boss Yes If the liner is in more than one length are the joints burned soldered 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 48"

Dia. of Tunnel shaft as per rule 10.311 Dia. of Crank shaft journals as per rule 10.826 Dia. of Crank pin 11.125 Size of Crank webs 41.5x7 Dia. of thrust shaft under

rollers 11.5 Dia. of screw 14.6 Pitch of Screw 15.3 No. of Blades 4 State whether moveable No Total surface 64.5

No. of Feed pumps 2 Diameter of ditto 3.5 Stroke 20 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 3.5 Stroke 20 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 3 Sizes of Pumps 2 1/2 x 6 x 7 1/2 x 6 x 8 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 2-3 Tunnel 1-3 In Holds, &c. No. 1. 2-3 x 2-4 No. 2. 1-3 x 2-2 1/2

No. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 1-4"

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

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks 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 All suction to forward of vessel How are they protected Led alongside shell bulkhead & wood

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 No Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel 2 Water tube boilers

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

Percentages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

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

Thickness 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

Shipping meter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

Thickness 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

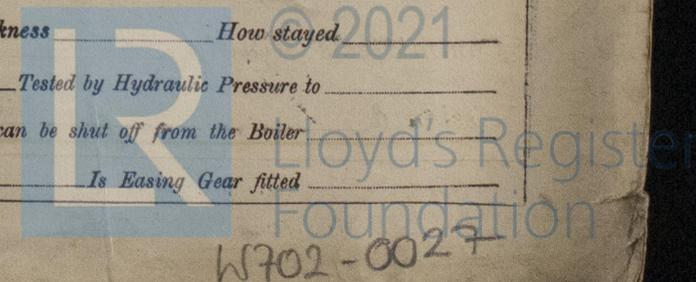
Shipping meter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Thickness 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

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

Number of Safety Valves Pressure to which each is adjusted Is Easing Gear fitted



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two main bearing bolts
 One set of coupling bolts
 One set of piston springs
 Iron of various sizes
 One set circulating pump valves
 Twenty five condenser tubes

Two connecting rod top end bolts and nuts
 Two connecting rod bottom end bolts and nuts
 One set of feed and bidge pump valves
 Quantity of assorted bolts and nuts
 One propeller
 One set air pump valves
 Fifty condenser ferrules.

The foregoing is a correct description,

ROBB ENGINEERING WORKS, LIMITED

Per *Robb Manager*

Manufacturer.

Dates of Survey while building: During progress of work in shops - Dec 19th 1917, (1918) Jan 11, March 13, April 12, May 13, June 4-18-11, July 2-4
 During erection on board vessel - July 27, Aug 5, 8, 12, 16, 23, Sept 13, Oct 1, 24, Nov 7, 11, Dec 1
 Total No. of visits: _____

Is the approved plan of main boiler forwarded herewith No

Is the approved plan of donkey boiler forwarded herewith No

Dates of Examination of principal parts—Cylinders 12-4-18 Slides 13-5-18 Covers 13-5-18 Pistons 13-5-18 Rods 13-5-18

Connecting rods 13-5-18 Crank shaft 13-5-18 Thrust shaft 18-6-18 Tunnel shafts 18-6-18 Screw shaft 2-7-18 Propeller

Stern tube _____ Steam pipes tested 30-8-18 Engine and boiler seatings 27-7-18 Engines holding down bolts 30-8-18

Completion of pumping arrangements 1-12-18 Boilers fixed 12-8-18 Engines tried under steam 1-12-18

Completion of fitting sea connections 27-7-18 Stern tube 27-7-18 Screw shaft and propeller 27-7-18

Main boiler safety valves adjusted 24-2-19 190lb. Thickness of adjusting washers P. Ford 15/32 P. Aft 3/8 S. Ford 1/4 S. Aft 1/4

Material of Crank shaft O.H. Steel Identification Mark on Do. 4-7-18 Material of Thrust shaft O.H. Steel Identification Mark on Do. 18-6-18

Material of Tunnel shafts O.H. Steel Identification Marks on Do. 18-6-18 Material of Screw shafts O.H. Steel Identification Marks on Do. 2-7-18

Material of Steam Pipes Steel Test pressure 540lbs

Is an installation fitted for burning oil fuel No 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 Yes If so, state name of vessel *WAR 1860/2 from Quebec. Seneca One*

General Remarks (State quality of workmanship, opinions as to class, &c. *These engines have been constructed*

under special survey in accordance with the Rules. The materials are good and workmanship satisfactory. These engines are being shipped to Quebec P.Q., where it is intended to fit together with the boilers, on board one of the wood vessels to the order of the Imperial Munitions Board, and after being assembled satisfactorily, the vessel will be eligible in my opinion, to have the record of LMC with date, and recommend the screw shaft be examined annually.

These engines have been installed on board together with the boiler & auxiliary machinery. The whole has been tried out under full working conditions with satisfactory results. In my opinion they are eligible to have the record of LMC with date when the safety valves have been adjusted.

The Boiler's Safety Valves have been adjusted under steam to the safe working pressure at

*Halifax N.S.
 R. Lee Ames*

**It is submitted that
 this vessel is eligible for
 THE RECORD. + LMC. 2-19. F.D.**

SUBJECT TO ANNUAL SURVEY OF WATER TUBE BOILERS, AND TO THE SCREW SHAFT BEING SPECIALLY EXAMINED AT JOINT OF LINER BEFORE THE END OF FEBRUARY 1921

The amount of Entry Fee ... £	:	:	When applied for,
Special ... £	\$ 60.00	July 22 nd 1919	
Donkey Boiler Fee ... £	61.00	From 1919	
Travelling Expenses (if any) £	14.45	When received,	
	40.00	9/4/19	

M. Moon
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. APR. 11. 1919
 + R. M. C. 2, 19 J. D.
 Subject

FRI. 22. AUG. 1919

TUE. NOV. 25. 1919

MACHINERY CERTIFICATE

WRITTEN 11.4.19

+ 16.5.19

TUE. MAR. 2. 1919

TUE. 16. DEC. 1919

Lloyd's Register Foundation