

REPORT ON MACHINERY

No. 23

WD. 24. 1918

REC'D NEW YORK

Nov 30 1917

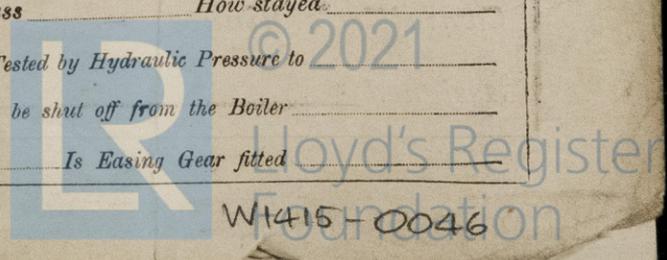
Received at London Office

Survey Report: Nov 27 1917 When handed in at Local Office: 1917 Port of Port Arthur Ont.
 Survey held at Port Arthur Ont. Date, First Survey Oct 11 1917 Last Survey Nov 26 1917
 on the Single Screw steel steamer "War Dance" Tons { Gross 2231.5
 { Net 893.98
Chas. Hall Built at Port Arthur By whom built Port Arthur Shipbldg Co. Ltd. When built 1917
 made at Port Arthur Ont By whom made Port Arthur Shipbldg Co. Limited when made 1917
 made at " By whom made " when made 1917
 Indicated Horse Power 146.83 Owners Imperial Munitions Board Port belonging to Port Arthur
 Indicated Horse Power as per Section 28 148.56 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted: yes

VES, &c.—Description of Engines Triple Expansion Surface Condensing No. of Cylinders 3 No. of Cranks 3
 Cylinders 20-33+54 Length of Stroke 40 Revs. per minute 80 to 100 Dia. of Screw shaft 11.4 Material of screw shaft Steel
 as per rule 11.22 as fitted 11.375
 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
 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
 the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two
 are fitted, is the shaft lapped or protected between the liners Length of stern bush 3'-10"
 Tunnel shaft 11.01 Dia. of screw 13-6 Pitch of Screw 15'-0" No. of Blades 4 State whether moveable No Total surface 6189 sq ft 37 1/2%
 as per rule 10.49 Dia. of Crank shaft journals 11.01 as per rule 11.01 Dia. of Crank pin 11 1/8 Size of Crank webs 20x22 Dia. of thrust shaft under
 as fitted 10.625 as fitted 11.25
 Feed pumps 2 Diameter of ditto 6 1/2 Stroke 20 Can one be overhauled while the other is at work yes
 Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 20 Can one be overhauled while the other is at work yes
 Donkey Engines 2 Sizes of Pumps 7 1/2 + 8 x 7 + 6-4 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 4-3" In Holds, &c. 5-3"
 Bilge Injections 1 sizes 6" Connected to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 3"
 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 None
 connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Both
 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
 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
 pipes are carried through the bunkers one air pipe How are they protected Steel Covering
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Engine Platform

FRS, &c.—(Letter for record) Manufacturers of Steel
 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 boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
 Boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
 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
 Stages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 plate
 Compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 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
 Stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:
 Area at smallest part Area supported by each stay Working pressure by rules Material of stays
 Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom
 Area supported by each stay Working pressure by rules Working pressure of plate by rules
 Material of Lower back plate Thickness Greatest pitch of stays
 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
 Length as per rule 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



IS A DONKEY BOILER FITTED? NONE. ✓

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— to Rule with the following additions: ✓

10 Gauge Glasses for Main boiler, 1 set of air pump valves, one set of circulating pump valves, one set of feed pump valves, four patent stays for main boiler, one spare propeller, 25 coils of tubes, and 12 boiler tubes. ✓

The foregoing is a correct description,

J. J. Page Gen. Manager Manufacturer.

Dates of Survey while building: During progress of work in shops: 1917 Oct 11, 12, 13, 22, 23, 24, 30, 31, Nov 1, 2, 3. During erection on board vessel: 15, 16, 17, 19, 20, 21, 22, 23, 24, 25 + 26. Total No. of visits: 22.

Is the approved plan of main boiler forwarded herewith? " " " donkey " " "

Dates of Examination of principal parts: Cylinders 11/10/17 Slides 11/10/17 Covers 11/10/17 Pistons 12/10/17 Rods 12/10/17 Connecting rods 12/10/17 Crank shaft 13/10/17 Thrust shaft 13/10/17 Tunnel shafts 22/10/17 Screw shaft 23/10/17 Propeller 22/10/17 Stern tube 2/11/17 Steam pipes tested 16/11/17 Engine and boiler seatings 3/11/17 Engines holding down bolts 21/11/17 Completion of pumping arrangements 26/11/17 Boilers fixed 16/11/17 Engines tried under steam 24/11/17 Completion of fitting sea connections 2/11/17 Stern tube 1/11/17 Screw shaft and propeller (Shaft 24/11/17) Main boiler safety valves adjusted 24/11/17 Thickness of adjusting washers 5/8 Material of Crank shaft Steel Identification Mark on Do. 23 C Material of Thrust shaft Steel Identification Mark on Do. 25 Material of Tunnel shafts Steel Identification Marks on Do. 25 Material of Screw shafts Steel Identification Marks on Do. 25 Material of Steam Pipes Steel ✓ Test pressure 600 lbs ✓

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. These engines have been built under special Survey in accordance with the Rules and approved plans.

The workmanship and materials are good and the Engines will be eligible in my opinion to receive the Notation LMC Port Arthur 26/11/17.

It is submitted that this vessel is eligible for THE RECORD. + LMC 11.17.

Handwritten signature and date: 25/4/18.

Table with columns for fee type (Entry Fee, Special, Donkey Boiler Fee, Travelling Expenses), amount in pounds, and when applied/received.

Handwritten signature: Robert Lewis, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute Assigned TUE 30 APR. 1918 + L.M.C. 11:17

FRI 5 JUL 1918



Vertical text on the left margin: Certificate (if required) to be sent to...