

REPORT ON MACHINERY

No. 23.

REC'D NEW YORK

Received at London Office

W.D. 24. APR. 1918

Survey held at Port Arthur Out. Date, First Survey Oct 11 1917 Last Survey Nov 26 1917
 on the Single Screw steel steamer "War Dance" (Number of Visits 22)
 Chas. Hall Built at Port Arthur By whom built Port Arthur Shipbldg Co. Ltd. When built 1917
 made at Port Arthur Out By whom made Port Arthur Shipbldg Co. Limited when made 1917
 made at " By whom made " when made 1917

Red Horse Power 146.83 Owners Imperial Munitions Board Port belonging to Port Arthur
 Horse Power as per Section 28 256 Is Refrigerating Machinery fitted for cargo purposes ☒ Is Electric Light fitted ☒

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 Steel
 as per rule 11.22 as fitted 11.375 screw shaft

Screw shaft fitted with a continuous liner the whole length of the stern tube ☒ Is the after end of the liner made water tight
 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
 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 as per rule 10.49 Dia. of Crank shaft journals as per rule 11.01 Dia. of Crank pin 11 1/8 Size of Crank webs 20 x 22 1/2 Dia. of thrust shaft under
 as fitted 10.625 as fitted 11.25

11.01 Dia. of screw 13-6 Pitch of Screw 15-0" No. of Blades 4 State whether moveable ☒ Total surface 61 sq ft 37 1/2
 Feed pumps 2 Diameter of ditto 6 1/2" Stroke 20" Can one be overhauled while the other is at work ☒
 Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 20" Can one be overhauled while the other is at work ☒

Donkey Engines 2 Sizes of Pumps 7 1/2 x 8 x 7 1/4 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 ☒ Is a separate Donkey Suction fitted in Engine room & size 3"
 the bilge suction pipes fitted with roses ☒ Are the roses in Engine room always accessible ☒ Are the sluices on Engine room bulkheads always accessible ☒

connections with the sea direct on the skin of the ship ☒ Are they Valves or Cocks Both
 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 above
 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 ☒

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 ☒
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges ☒

Screw Shaft Tunnel watertight ☒ Is it fitted with a watertight door ☒ worked from Engine Platform
 SRS, &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
 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

Plates of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 plate Working pressure of shell by rules Material Outside diameter
 Compensating ring No. and Description of Furnaces in each boiler No. of strengthening rings

of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
 bottom Thickness of plates bottom Working pressure of shell by rules Material Outside diameter
 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 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

across wide water spaces 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
 RHEATER. 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

of Safety Valve

2021

Lloyd's Register

W1415-0046

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. F. Page 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 3/11/13 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. 2
Material of Tunnel shafts Steel Identification Marks on Do. 25/11/17 Material of Screw shafts Steel Identification Marks on Do. 26
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.

AWD 25/4/18.

The amount of Entry Fee ... £ 15:00 : When applied for,
Special ... £ 171:00 : Nov. 26 1917
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 19

Committee's Minute

TUE. 30 APR. 1918

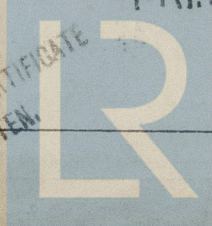
Assigned

+ LMC 11:17

Engine Surveyor to Lloyd's Register of Shipping

FRI. 5 JUL. 1918

MACHINERY CERTIFICATE WRITTEN



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