

REPORT ON MACHINERY

No. 1099

Received at London Office

Date of writing Report

REC'D NEW YORK Sept. 11-1918.

When handed in at Local Office

Port of

Sept. 30-1918.

No. in Survey held at New Glasgow Date, First Survey 1918 Last Survey 1918
Reg. Book. Steel screw steamer "War Bee" (Number of Visits)
on the Steel screw steamer "War Bee" Tons { Gross 1729.83
Net 1068.47
Master John Gabriel Dorsky Built at New Glasgow By whom built Nova Scotia Steel & Coal Co. When built 1917-1918
Engines made at New Glasgow By whom made Nova Scotia Steel & Coal Co. when made 1917
Boilers made at Toronto By whom made John Inglis & Co. when made 1917
Registered Horse Power (780) Owners Imperial Munitions Board Port belonging to Pictou
Nom. Horse Power as per Section 28 151 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Vertical Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 17, 28 & 21 1/2" Length of Stroke 33" Revs. per minute 80 Dia. of Screw shaft 16 1/2" Material of steel
as per rule 10 1/2" as fitted 11" screw shaft
Is the screw shaft fitted with a continuous liner the whole length of the stern tube no Is the after end of the liner made water tight
in the propeller boss yes If the liner is in more than one length are the joints burned no 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 no If two
liners are fitted, is the shaft lapped or protected between the liners lapped Length of stern bush 11" 11"
Dia. of Tunnel shaft 8 3/4" as per rule 8 3/4" Dia. of Crank shaft journals 9 3/8" as per rule 9 3/8" Dia. of Crank pin 9 3/8" Size of Crank webs 6" x 17 1/2" x 4" Dia. of thrust shaft under
collars 9 3/8" Dia. of screw 12" Pitch of Screw 1 1/2" No. of Blades 4 State whether moveable no Total surface 49.75 sq. feet
No. of Feed pumps 2 Diameter of ditto 2 3/4" Stroke 18" Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 Diameter of ditto 3" Stroke 18" Can one be overhauled while the other is at work yes
No. of Donkey Engines 2 Sizes of Pumps 7 1/2 x 8, 4 1/2 x 7 1/2 x 15 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 5 - 2 1/2" In Holds, &c. 2 - 2 1/2" in No. 1 hold
3 - 2 1/2" in No. 2 hold, 1 - 2 1/2" to Tunnel well, 1 - 2 1/2" in Thrust recess
No. of Bilge Injections 1 sizes 5" Connected to condenser, & to circulating pump Is a separate Donkey Suction fitted in Engine room & size yes 2 1/2"
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 yes
Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Valves
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 yes
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 for donkey steam & exhaust, water service to d.k., fresh water suction to galley, soil and drains from accommodation How are they protected cased in with steel plates
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 yes Is it fitted with a watertight door yes worked from steering engine platform

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel Luxens Steel Company, Coatesville
Total Heating Surface of Boilers 2566 Is Forced Draft fitted no No. and Description of Boilers 2 Scotch Multitubular Single-ended
Working Pressure 185 lbs per sq. in. Tested by hydraulic pressure to 370 lbs per sq. in. Date of test Sept. 12, 1917 No. of Certificate 1044
Can each boiler be worked separately yes Area of fire grate in each boiler 38.5 No. and Description of Safety Valves to
each boiler 2 spring-loaded Area of each valve 4.9 Pressure to which they are adjusted 185 lbs per sq. in. Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork 10 1/2" Mean dia. of boilers 11 1/2" Length 10' 6" Material of shell plates steel
Thickness 1 1/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams D. riv. lap
long. seams In the D.B. Stay Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 7 3/4" Lap of plates or width of butt straps 17 3/4"
Per centages of strength of longitudinal joint 102+ rivets 82+ plate Working pressure of shell by rules 195 Size of manhole in shell 11" x 15"
Size of compensating ring 3 1/2 x 30 x 1 1/4 No. and Description of Furnaces in each boiler 2 corrugated Material steel Outside diameter 46"
Length of plain part top 19 1/32" Thickness of plates bottom 19 1/32" Description of longitudinal joint welded No. of strengthening rings no
Working pressure of furnace by the rules 205 Combustion chamber plates: Material steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 1"
Pitch of stays to ditto: Sides 7 x 7" Back 6 x 6" Top 8 x 7" If stays are fitted with nuts or riveted heads Nuts inside Working pressure by rules 193
Material of stays steel Area at smallest part 4 1/4" Area supported by each stay 36 Working pressure by rules 240 End plates in steam space:
Material steel Thickness 1" Pitch of stays 15 x 15" How are stays secured screwed and nutted Working pressure by rules 199 1/2 Material of stays steel
Area at smallest part 2 1/2 Area supported by each stay 225 Working pressure by rules 226 Material of Front plates at bottom steel
Thickness 1" Material of Lower back plate steel Thickness 5/16" Greatest pitch of stays 2 13 x 6" Working pressure of plate by rules 261
Diameter of tubes 3 1/2" Pitch of tubes 4 1/16" x 4 1/2" Material of tube plates steel Thickness: Front 1" Back 3/4" Mean pitch of stays 9 x 9 3/8"
Pitch across wide water spaces 14 1/5" Working pressures by rules 203 Girders to Chamber tops: Material steel Depth and
thickness of girder at centre 8 1/2" x 13 1/8" Length as per rule 2-3 Distance apart 8" Number and pitch of stays in each 3 x 7"
Working pressure by rules 288 Steam dome: description of joint to shell no % of strength of joint no
Diameter no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no
Pitch of rivets no Working pressure of shell by rules no Crown plates no Thickness no How stayed no
SUPERHEATER. Type no Date of Approval of Plan no Tested by Hydraulic Pressure to no
Date of Test no Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler no
Diameter of Safety Valve no Pressure to which each is adjusted no Is Easing Gear fitted no

IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:— *✓*

2 Bottom-end bolts and nuts: Assorted bolts and nuts
2 Top end bolts and nuts: Iron of various sizes.
2 Main-bearing bolts and nuts: 1 set Piston-springs.
1 Set Coupling-bolts and nuts
2 Sets Feed pump valves for main and auxiliary pumps.
2 Sets Bilge-pump valves: 1 set Air-pump valves

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 32
During erection on board vessel -- 75
Total No. of visits 107

Is the approved plan of main boiler forwarded herewith *✓*

" " " donkey " " " *✓*

Dates of Examination of principal parts—Cylinders *Oct. 17, 18, 19/17* Slides *Oct. 20, Nov. 2/17* Covers *Oct. 20/17* Pistons *Oct. 19, 22/17* Rods *Oct. 19, 22/17*
Connecting rods *Oct. 20, 22/17* Crank shaft *Oct. 20/17* Thrust shaft *Jan. 1, 10/18* Tunnel shafts *Jan. 1, 10/18* Screw shaft *Dec. 29/17* Propeller *Dec. 29/17*
Stern tube *Jan. 1, 10/18* Steam pipes tested *Apr. 8th/18* Engine and boiler seatings *Oct. 12/17* Engines holding down bolts *June 4/18*
Completion of pumping arrangements *May 29/18* Boilers fixed *Jan. 30/18* Engines tried under steam *Rock trial June 4/18*
Completion of fitting sea connections *Jan. 30/18* Stern tube *April 24/18* Screw shaft and propeller *April 24/18*
Main boiler safety valves adjusted *July 9th/18* Thickness of adjusting washers *STRAD. AFT. 17/32; PORT AFT. 17/32*
Material of Crank shaft *A.H. Steel* Identification Mark on Do. *J.L.G.C.* Material of Thrust shaft *A.H. Steel* Identification Mark on Do. *J.L.G.C.*
Material of Tunnel shafts " " " Identification Marks on Do. *J.L.G.C.* Material of Screw shafts " " " Identification Marks on Do. *J.M.*
Material of Steam Pipes *Copper* Test pressure *370 lbs per sq. in.*

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 *No* If so, state name of vessel *✓*

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery and boilers of this vessel have been constructed under special survey in accordance with the Society's rules: the quality of material and workmanship is satisfactory: and steam trials were satisfactorily made. The said are eligible, in my opinion to be classed and have the record of L.M.C.*

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 7.18

5-11-18
APR

The amount of Entry Fee ... \$ 10.00 : When applied for,
Special ... \$ 10.00 : 6.9.1918
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) \$ 145.00 : 05.2.1918

Committee's Minute

Assigned

TUE - 5 NOV. 1918

+ L.M.C. 7.18

C. Jones
Engineer Surveyor to Lloyd's Register of Shipping.

FRI NOV 8 1918
TUE 31 DEC. 1918



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Foundation