

Halifax, Nova Scotia,

August 5th, 1921.

T. MOON

the Halifax Shipyards, Ltd., Halifax, attend at their Works to ascertain the condition of the machinery and boilers of their Ships Nos. 3 & 4, these having been transported from Three Rivers, P. Q., to Halifax, N. S., via Montreal, ex S.S. "WATUKA", between July 14th and 27th, 1921, it being stated that a portion of the machinery was re-stowed at Montreal.

On August 1, 1921, the machinery and boilers being discharged made examination:

FOUND

RECOMMENDED

Machinery for Hull No. 3

I. P. Back Column:

1 x 5/8" stud for handrail broken
Nipple for inlet guide water service
broken & part missing
2 x 3/8" set bolts for crank pit guard
broken
Guide face rusty

Renew

"

"

Re-polish

L. P. Back Column:

4 x 3/8" bolts broken or missing

Renew

H. P. Back Column:

4 Bolts inside leg bent 3/8"
1 Bracket bolt missing 7/8"
Plug to hole for guide water service missing
1 Bolt forward side broken 7/8"
1 " " " " 3/8"

Renew

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"

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"



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FOUNDRECOMMENDEDMachinery for Hull No. 3 (continued)Front Columns:

Guide faces

Re-polish

H. P. Piston Rod & Crosshead:

White metal on ahead guide shoe badly damaged
Co-astern shoe rusty
Crosshead pins rusty
6 Brass screws for oil combs missing

Re-metal
Re-polish
"
Renew

I. P. Piston Rod & Crosshead:

White metal of ahead guide shoe damaged
Astern shoe rusty
Crosshead pins rusty
6 Brass screws for oil combs missing

Dress up
Re-polish
"
Renew

L. P. Piston Rod & Crosshead:

White metal of ahead-shoe damaged
Taper pin for piston nut missing
Astern shoe rusty
6 Brass screws missing

Dress up
Renew
Re-polish
Renew

H. P., I. P., L. P., Slide Valve Spindles:

All spindles in rusty condition

Re-polish

Main Engine Bed Plate:

1 Set pin broken in bottom nut of L. P. Main Bearing Bolt
2 set pins broken in top nuts of main bearing bolts
4 set pins missing in top nuts of main bearing bolts
L. P. & H. P. Eccentric troughs buckled and distorted (sheet iron)

Renew

"

"

Repair

L. P. Cylinder:

Iron bracket cyl. bottom bent, 4 bolts and studs broken

Repair bracket & renew bolts & studs

L. P. Slide Valve:

Very rusty spring attachment to back of valve rusty and full of water & dirt

Clean, overhaul & make good

H. P. Cylinder:

1 Eye bolt missing out of cover
Several nuts missing

Renew

"

I. P. Cylinder:

2 Eye Bolts missing out of cover

Renew

Air Pump:

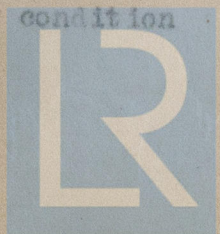
3/4 stud in air pump gland broken

Renew

Crank Shaft:

Crank pins and shaft journals in rusty condition

Re-polish



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RECOMMENDED.

Machinery for Hull No. 3 (continued)

Weigh Bar Shaft:

Shaft and pins rusty

Re-polish

H. P., I. P., & L. P. Conn. Rod:

White metal of crank pin brasses damaged & rod rusty
1 Set pin missing from L. P. crosshead bolt

Metal to be dressed up
& rods re-polished
Renew

H. P., I. P., L. P., Rec. Rods:

Rec. rods and reversing quadrants in dirty and rusty condition

Clean & re-polish

Turning Engine:

Whole of engine in rusty and dirty condition & openings not closed

Clean & open up cylinder for examination

Boilers, etc.

Main Uptake:

Air casing round uptake buckled and bent in various places
Angle frames at uptake bottom badly distorted

To be repaired & placed in good order

Smoke Boxes and Uptakes:

All smoke boxes and uptakes are buckled and distorted

To be repaired & placed in good order

Several air valve levers on furnace fronts damaged

Repair

Ford. Boiler:

Boiler front one 3/4 stud broken

Renew

MACHINERY FOR HULL NO. 4.

H. P. Back Column:

1 x 3/4 Set bolt missing
Nipple to inlet guide water service broken and part missing
Guide faces rusty

Renew

Re-polish

I. P. & L. P. Back Column:

Guide face rusty

Re-polish

H. P. Piston Rod and Crosshead:

White metal on go-ahead shoe damaged
Crosshead pins rusty
Rod in rusty condition

Dress up.
Re-polish

I. P. & L. P. Piston Rod and Crosshead:

White metal ahead shoe damaged crosshead pins rusty

Dress up metal & re-polish pins



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RECOMMENDED

MACHINERY FOR HULL NO. 4 (continued)

L. P. Cylinder:

5 Studs broken for flange of indicator pipe $\frac{1}{2}$ "	Renew
18 studs missing off suction pipe flange	"

Air Vessel:

Brass valve spindle broken	Renew
2 sheet iron eccentric troughs bent and distorted	Repair

H. P., I. P., L. P. Slide Valve Spindles:

All spindles in rusty condition	Re-polish
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Wedge Bar Shaft:

Shaft & Pins in dirty and rusty condition	Clean & polish
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Ecc. Rod & Rev. Quadrants:

All rods rusty and dirty	Clean & polish
H. P. 1 oil cup broken and missing	Renew

H. P. Piston Valve:

Junk ring and studs in rusty condition	Clean, overhaul & make good
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Turning Engine:

Very dirty and rusty & openings not closed	Clean & open up cylinder
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Crank Shaft:

All shafting and pins very rusty	Clean & polish
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Stern Tube, Gland, Etc.

1 $\frac{1}{2}$ " brass gland stud broken	Renew
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Connecting Rods:

H. P., I. P., & L. P. Crank pin brasses, white metal damaged	Dress up
Rod in dirty and rusty condition	Clean & polish
8 Bolts for oil boxes missing	Renew

BOILERS, Etc.

Main Uptake:

Uptake bent and buckled in many places	Repair & place in good order
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Boiler Uptakes:

Air casing bent and buckled	Repair & place in good order
Inside plates turned up at corners	Repair & place in good order



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FOUNDRECOMMENDEDMACHINERY FOR HULL NO. 4 (continued)Centre Boiler Back End:

Vertical angles for Lagging casing bent at both ends

Repair

Centre Boiler Front End:

Lagging casing angles round front end bent and distorted

Repair

Number of 2" studs for smoke box missing

Renew

Centre Boiler Port Side:

2 Studs bent $\frac{1}{2}$ "

Renew

Centre Boiler Smokebox:

Steel iron casing distorted and buckled, & holes in angle frame work have bolts or rivets missing

Repair casing & re-new bolts & rivets as necessary

Starboard Boiler:

Lagging angle round front end bent and distorted Back and plate of boiler slightly indented but, in my opinion, efficient.

Repair

Starboard Boiler Smokebox & Uptake:

Sheet Iron work bent and buckled, numerous holes in angles without bolts or rivets

Repair & place in Good order with bolts & rivets complete

Smokebox Doors:

Several doors have air casing plates damaged

Repair

Port Boiler Front:

Lagging casing angle round front end bent and damaged

Repair

Number of 2" studs for smokebox missing

Renew

Port Boiler Port Side:

2 studs broken $\frac{1}{2}$ "

Renew

Clip for angle missing

"

Smokebox & Uptake:

Sheet Iron casing damaged

Repair

Ford. Boiler Front:

Number of 2" bolts for smokebox casing, broken or bent, or missing

Renew



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RECOMMENDED

MACHINERY FOR HULL NO. 4 (continued)

ord. Boiler Smokebox:

Port side corner sheet iron casing turned up and) Repair & place in good order, renew- ing missing bolts & rivets.
felting damaged and missing	
Bolts missing, 5/8"	
Sheet iron casing round smokebox damaged and bent	
holes in inside angles to have burrs removed	
" plate in lower half of smokebox twisted)
Numerous bolts and rivets missing from angle framework	

Y Moon.

Surveyor to Lloyd's Register.

*(Capt. R. B.
12/8/21)*

\$50.



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