

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	Renew
Nipple for inlet guide water service broken & part missing	"
2 x 3/8" set bolts for crank pit guard broken	"
Guide face rusty	Re-polish

L. P. Back Column:

4 x 3/8" bolts broken or missing	Renew
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H. P. Back Column:

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



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W280-00922(116)

<u>FOUND</u>	<u>RECOMMENDED</u>
<u>Machinery for Hull No. 3 (continued)</u>	
<u>Front Columns:</u>	
Guide faces	Re-polish
<u>H. P. Piston Rod & Crosshead:</u>	
White metal on ahead guide shoe badly damaged	Re-metal
Co-astern shoe rusty	Re-polish
Crosshead pins rusty	"
6 Brass screws for oil combs missing	Renew
<u>I. P. Piston Rod & Crosshead:</u>	
White metal of ahead guide shoe damaged	Dress up
Astern shoe rusty	Re-polish
Crosshead pins rusty	"
6 Brass screws for oil combs missing	Renew
<u>L. P. Piston Rod & Crosshead:</u>	
White metal of ahead-shoe damaged	Dress up
Taper pin for piston nut missing	Renew
Astern shoe rusty	Re-polish
6 Brass screws missing	Renew
<u>H. P., I. P., L. P., Slide Valve Spindles:</u>	
All spindles in rusty condition	Re-polish
<u>Main Engine Bed Plate:</u>	
1 Set pin broken in bottom nut of L. P. Main Bearing Bolt	Renew
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)	Repair
<u>L. P. Cylinder:</u>	
Iron bracket cyl. bottom bent, 4 bolts and studs broken	Repair bracket & renew bolts & studs
<u>L. P. Slide Valve:</u>	
Very rusty spring attachment to back of valve rusty and full of water & dirt	Clean, overhaul & make good
<u>H. P. Cylinder:</u>	
1 Eye bolt missing out of cover	Renew
Several nuts missing	"
<u>I. P. Cylinder:</u>	
2 Eye Bolts missing out of cover	Renew
<u>Air Pump:</u>	
3/4 stud in air pump gland broken	Renew
<u>Crank Shaft:</u>	
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., Ecc. Rods:

Ecc. 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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FOUND

RECOMMENDED

MACHINERY FOR HULL NO. 4 (continued)

L. P. Cylinder:

5 Studs broken for flange of indicator pipe 2"
18 studs missing off suction pipe flange

Renew
"

Air Vessel:

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

Renew
Repair

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

All spindles in rusty condition

Re-polish

Weigh Bar Shaft:

Shaft & Pins in dirty and rusty condition

Clean & polish

Acc. Rod & Rev. Quadrants:

All rods rusty and dirty
H. P. 1 oil cup broken and missing

Clean & polish
Renew

H. P. Piston Valve:

Junk ring and studs in rusty condition

Clean, overhaul &
make good

Turning Engine:

Very dirty and rusty & openings not closed

Clean & open up
cylinder

Crank Shaft:

All shafting and pins very rusty

Clean & polish

Stern Tube, Gland, Etc.

1 1/2" brass gland stud broken

Renew

Connecting Rods:

H. P., I. P., & L. P. Crank pin brasses, white
metal damaged
Rod in dirty and rusty condition
3 Bolts for oil boxes missing

Dress up
Clean & polish
Renew

BOILERS, Etc.

Main Uptake:

Uptake bent and buckled in many places

Repair & place in
good order

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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FOUND

RECOMMENDED

MACHINERY 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 1/2" studs for smoke box missing

Renew

Centre Boiler Port Side:

2 Studs bent 1/2"

Renew

Centre Boiler Smokebox:

Steel iron casing distorted and buckled, 4 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 end 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 1/2" studs for smokebox missing

Renew

Port Boiler Port Side:

2 studs broken 1/2"

Renew

Clip for angle missing

"

Smokebox & Uptake:

Sheet Iron casing damaged

Repair

Fore Boiler Front:

Number of 1/2" bolts for smokebox casing, broken or bent, or missing

Renew



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W280-0092 (5/6)

FOUND

RECOMMENDED

MACHINERY FOR HULL NO. 4 (continued)

ord. Boiler Smokebox:

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

J. Moor.

Surveyor to Lloyd's Register.

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

\$50.



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