

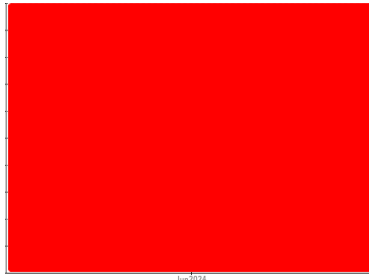
# PROBLEM SUMMARY

Sample Rating Trend

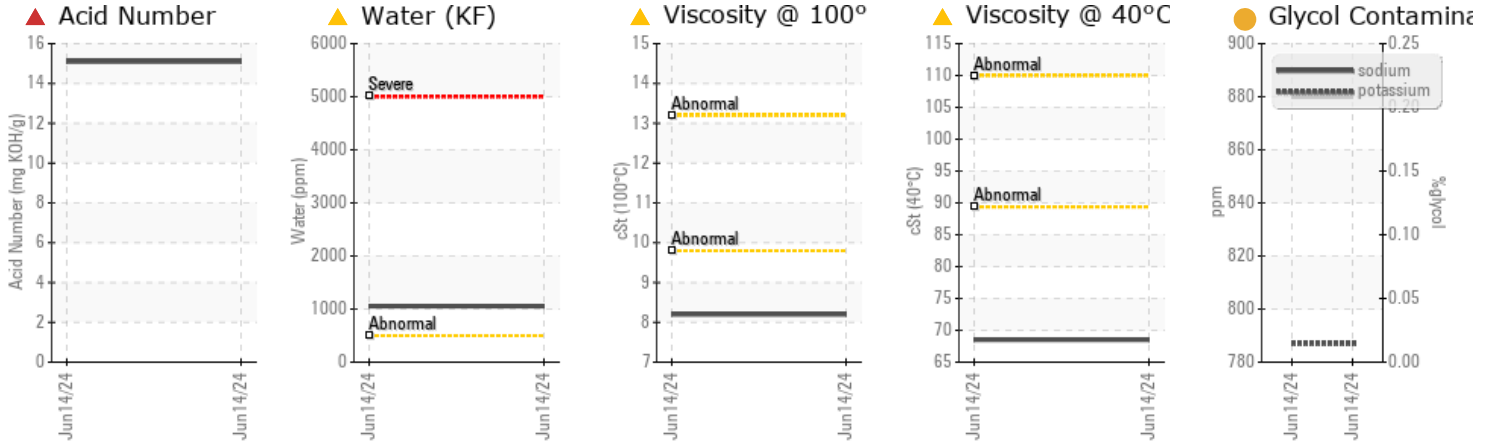
DEGRADATION



Area  
**Ursa Manufacturing - L08000**  
 Machine Id  
**RB009-R**  
 Component  
**Hydraulic System**  
 Fluid  
**PERLUBE AW 100 S (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

The total Acid Number (TAN) is higher than the recommended level of 2.0.  
 Viscosity at 40 °C is out of spec (100 ± 10 cSt).  
 The water content is higher than the recommended level of 300 ppm.  
 This oil should be changed out.

## PROBLEMATIC TEST RESULTS

Sample Status	Unit	ASTM	Value	SEVERE	---	---
Water	%	ASTM D6304*	>0.05	▲ 0.105	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ 1054	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		▲ 15.1	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		▲ 68.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		▲ 8.2	---	---

Customer Id: CHECOB  
 Sample No.: E30002398  
 Lab Number: 02642595  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Aylwin Lee +1 (905)372-2251  
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To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

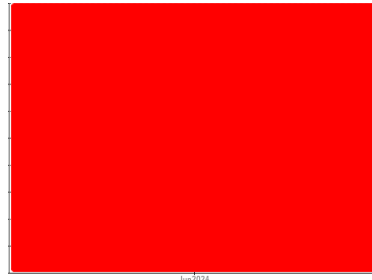


# OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area  
**Ursa Manufacturing - L08000**  
 Machine Id  
**RB009-R**  
 Component  
**Hydraulic System**  
 Fluid  
**PERLUBE AW 100 S (--- GAL)**



## DIAGNOSIS

**Recommendation**  
 The total Acid Number (TAN) is higher than the recommended level of 2.0.  
 Viscosity at 40 °C is out of spec (100 ± 10 cSt).  
 The water content is higher than the recommended level of 300 ppm.  
 This oil should be changed out.

**Wear**  
 Iron ppm levels are noted.

**Contamination**  
 Water and ppm water contamination levels are abnormal. Silicon ppm levels are notably high.  
 Potassium ppm levels are notably high.

**Fluid Condition**  
 Acid Number (AN) is severely high. Visc @ 100°C is abnormally low. Visc @ 40°C is abnormally low.  
 Sodium ppm levels are notably high.

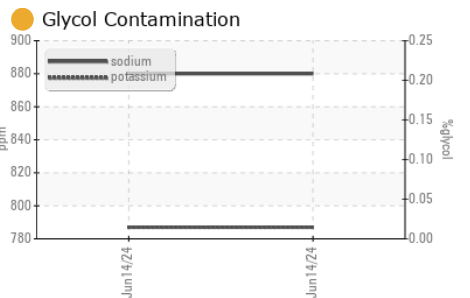
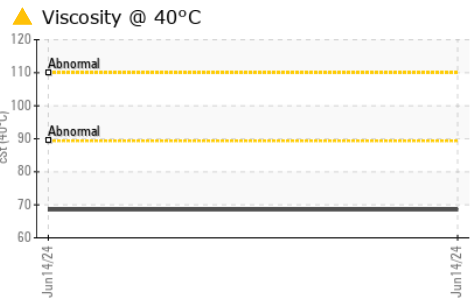
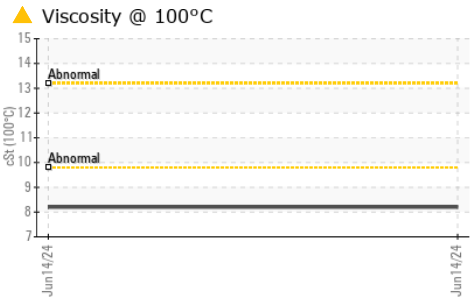
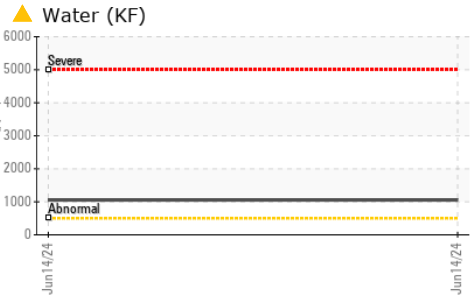
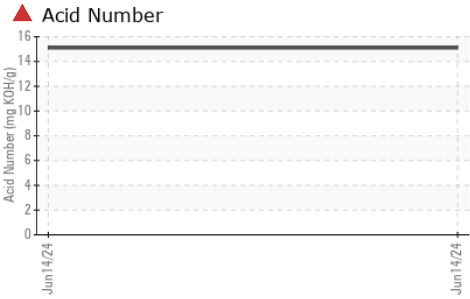
SAMPLE INFORMATION	method	limit/base	current	history1	history2
Department	Client Info		<b>Sales</b>	---	---
Sample From	Client Info		<b>Machine</b>	---	---
Production Stage	Client Info		<b>Lab Reclaim</b>	---	---
Sent to WC	Client Info		<b>06/14/2024</b>	---	---
Sample Number	Client Info		<b>E30002398</b>	---	---
Sample Date	Client Info		<b>14 Jun 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>558</b>	---
Chromium	ppm	ASTM D5185(m)	>20	<b>3</b>	---
Nickel	ppm	ASTM D5185(m)	>20	<b>1</b>	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	---
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---
Vanadium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>40</b>	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	---
Manganese	ppm	ASTM D5185(m)		<b>4</b>	---
Magnesium	ppm	ASTM D5185(m)		<b>14</b>	---
Calcium	ppm	ASTM D5185(m)		<b>130</b>	---
Phosphorus	ppm	ASTM D5185(m)		<b>231</b>	---
Zinc	ppm	ASTM D5185(m)		<b>769</b>	---
Sulfur	ppm	ASTM D5185(m)		<b>23806</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<b>13</b>	---
Sodium	ppm	ASTM D5185(m)		<b>880</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>787</b>	---
Water	%	ASTM D6304*	>0.05	<b>0.105</b>	---
ppm Water	ppm	ASTM D6304*	>500	<b>1054</b>	---

# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>531</b>	---	---
Particles >6µm	ASTM D7647	>640	<b>109</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>7</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>4</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	<b>16/14/10</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>▲ 15.1</b>	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	<b>NONE</b>	---	---
Silt	scalar	Visual*	<b>NONE</b>	---	---
Debris	scalar	Visual*	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	<b>NONE</b>	---	---
Appearance	scalar	Visual*	<b>NORML</b>	---	---
Odor	scalar	Visual*	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	<b>NEG</b>	---	---
Free Water	scalar	Visual*	<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	<b>▲ 68.5</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	<b>▲ 8.2</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	<b>84</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30002398  
**Lab Number** : **02642595**  
**Unique Number** : 5800134  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, TAN Man, VI )

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To discuss this sample report, contact Customer Service at 1-905-372-2251.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.