



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**CMI - C13620**  
 Machine Id  
**A2403081**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The sample submitted is 4 times dirtier than the ISO dirt count recommendation of 19/16/14.

### ▲ Contamination

Particles >6µm and oil cleanliness are notably high.

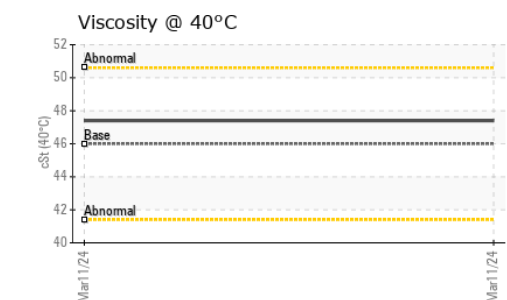
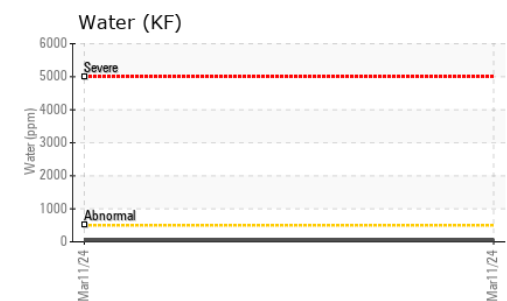
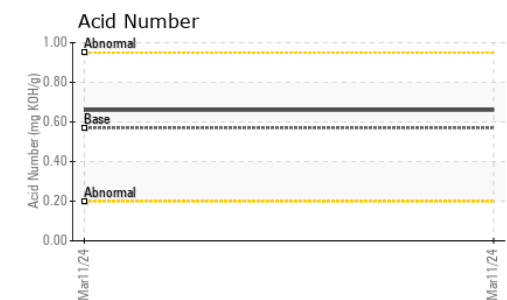
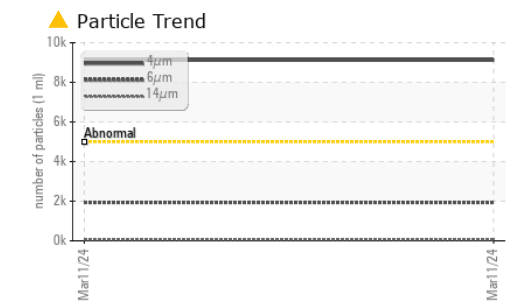
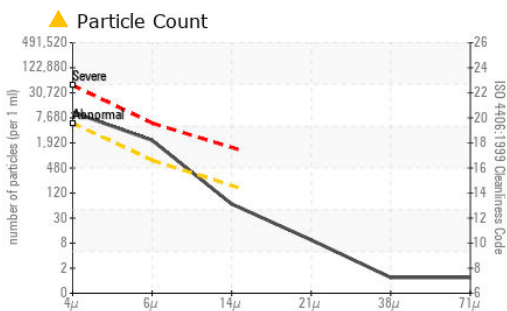
SAMPLE INFORMATION		method	limit/base	current	history1	history2
Batch #	Client Info			<b>Mobile</b>	---	---
Machine ID	Client Info			<b>Tote #2</b>	---	---
Department	Client Info			<b>Production</b>	---	---
Sample From	Client Info			<b>Machine</b>	---	---
Production Stage	Client Info			<b>Final</b>	---	---
Sent to WC	Client Info			<b>03/12/2024</b>	---	---
Sample Number	Client Info			<b>E30001588</b>	---	---
Sample Date	Client Info			<b>11 Mar 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>ABNORMAL</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>20	<b>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>0</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)	5	<b>0</b>	---	---
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	25	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185(m)	200	<b>99</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	300	<b>650</b>	---	---
Zinc	ppm	ASTM D5185(m)	370	<b>810</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2500	<b>1575</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Water	%	ASTM D6304*	>0.05	<b>0.004</b>	---	---
ppm Water	ppm	ASTM D6304*	>500	<b>48</b>	---	---

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30001588 **Received** : 14 Mar 2024  
**Lab Number** : **02621991** **Tested** : 15 Mar 2024  
**Unique Number** : 5747110 **Diagnosed** : 15 Mar 2024 - Tatiana Sorkina  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, VI )

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.

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 CA K9A 5H5  
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 F: (905)373-4950

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	● <b>9119</b>	---	---
Particles >6µm	ASTM D7647	>640	▲ <b>1937</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>58</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>8</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ <b>20/18/13</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	<b>0.66</b>	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.05	<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)	46	<b>47.4</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	<b>9.4</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	<b>186</b>	---	---

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