



# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**Central Machinery**  
 Machine Id  
**A2401040**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

## DIAGNOSIS

- ▲ Recommendation**  
 This is a baseline read-out on the submitted sample.
- Wear**  
 {not applicable}
- ▲ Contamination**  
 The sample submitted is 2 times dirtier than the ISO dirt count recommendation of 19/16/14.
- Fluid Condition**  
 {not applicable}

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Batch #	Client Info	<b>Mobile</b>	---	---
Machine ID	Client Info	<b>Bailer #1</b>	---	---
Department	Client Info	<b>Production</b>	---	---
Sample From	Client Info	<b>Machine</b>	---	---
Production Stage	Client Info	<b>Initial</b>	---	---
Sent to WC	Client Info	<b>01/05/2024</b>	---	---
Sample Number	Client Info	<b>E30001113</b>	---	---
Sample Date	Client Info	<b>19 Dec 2023</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>2</b>	---	---
Chromium ppm ASTM D5185(m)	>20	<b>2</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>1</b>	---	---
Copper ppm ASTM D5185(m)	>20	<b>8</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>	---	---

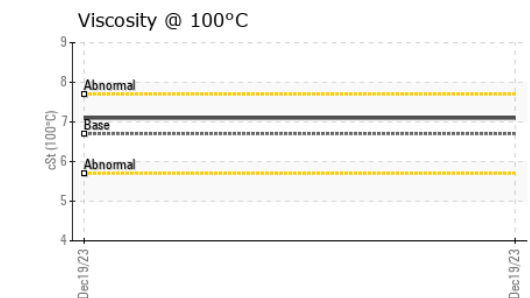
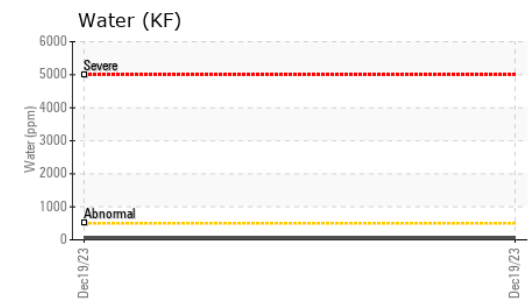
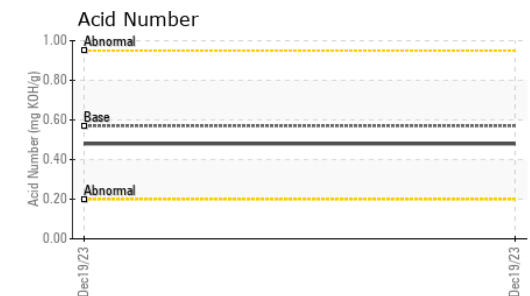
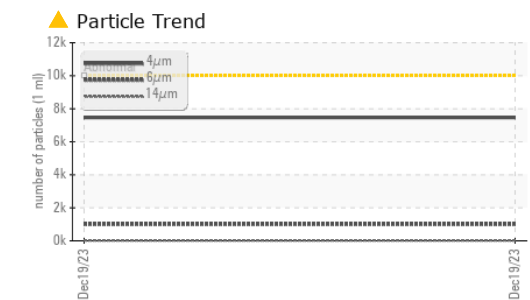
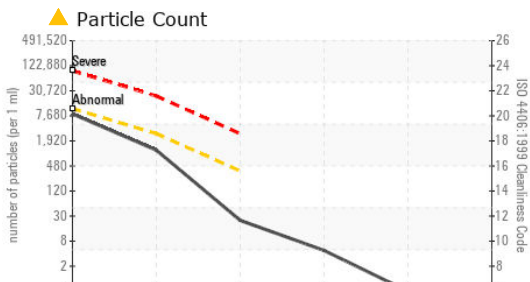
## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	5	<b>&lt;1</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>48</b>	---	---
Calcium ppm ASTM D5185(m)	200	<b>81</b>	---	---
Phosphorus ppm ASTM D5185(m)	300	<b>343</b>	---	---
Zinc ppm ASTM D5185(m)	370	<b>405</b>	---	---
Sulfur ppm ASTM D5185(m)	2500	<b>986</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>&lt;1</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>1</b>	---	---
Water % ASTM D6304*	>0.05	<b>0.004</b>	---	---
ppm Water ppm ASTM D6304*	>500	<b>48</b>	---	---

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FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 7465	---	---
Particles >6µm	ASTM D7647	>2500	1010	---	---
Particles >14µm	ASTM D7647	>320	21	---	---
Particles >21µm	ASTM D7647	>80	4	---	---
Particles >38µm	ASTM D7647	>20	0	---	---
Particles >71µm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 20/17/12	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.48	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.05	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	45.8	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	7.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	113	---

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30001113 **Received** : 09 Jan 2024  
**Lab Number** : 02607546 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 5708632 **Diagnostician** : Tatiana Sorkina  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, 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.