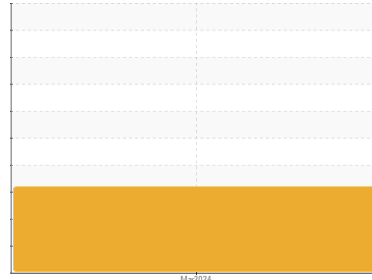




# OIL ANALYSIS REPORT

Sample Rating Trend

**WATER**



Machine Id  
**WATER JET**  
 Component  
**Hydraulic System**  
 Fluid  
**ISO 46 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend either performing an oil change or oil filtration. We cannot recommend specific action as we have limited information with regards to reservoir capacity and/or lubricant type. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a moderate concentration of water present in the oil. Free water present. The system cleanliness is acceptable for your target ISO 4406 cleanliness code.

### Fluid Condition

The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0900560</b>	---	---
Sample Date	Client Info	<b>12 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>1</b>	---	---
Chromium ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)		<b>0</b>	---	---
Aluminum ppm ASTM D5185(m)	>20	<b>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)		<b>&lt;1</b>	---	---
Barium ppm ASTM D5185(m)		<b>0</b>	---	---
Molybdenum ppm ASTM D5185(m)		<b>0</b>	---	---
Manganese ppm ASTM D5185(m)		<b>0</b>	---	---
Magnesium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Calcium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Phosphorus ppm ASTM D5185(m)		<b>229</b>	---	---
Zinc ppm ASTM D5185(m)		<b>6</b>	---	---
Sulfur ppm ASTM D5185(m)		<b>159</b>	---	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINANTS

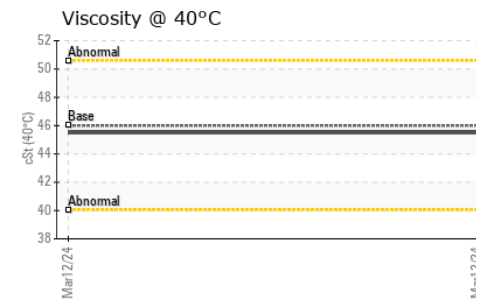
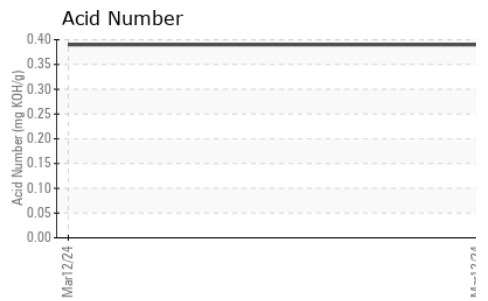
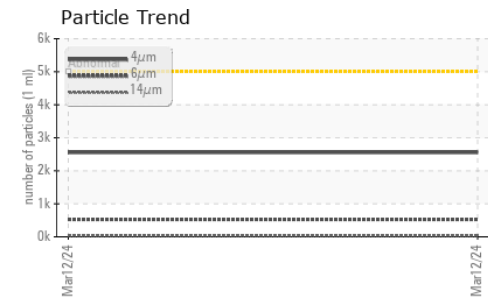
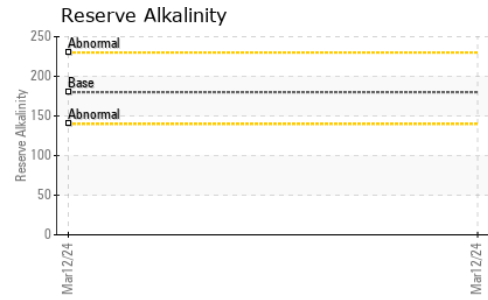
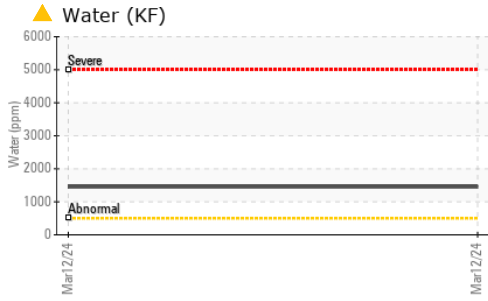
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Sodium ppm ASTM D5185(m)		<b>3</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>6</b>	---	---
Water % ASTM D6304*	>0.05	<b>▲ 0.145</b>	---	---
ppm Water ppm ASTM D6304*	>500	<b>▲ 1452</b>	---	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	<b>2555</b>	---	---
Particles >6µm ASTM D7647	>1300	<b>527</b>	---	---
Particles >14µm ASTM D7647	>160	<b>36</b>	---	---
Particles >21µm ASTM D7647	>40	<b>10</b>	---	---
Particles >38µm ASTM D7647	>10	<b>3</b>	---	---
Particles >71µm ASTM D7647	>3	<b>2</b>	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>19/16/12</b>	---	---



# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.39</b>	---	---

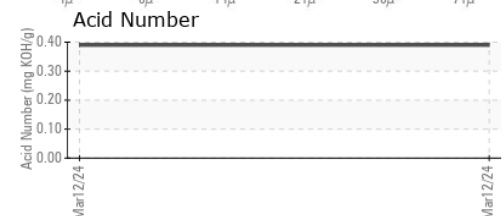
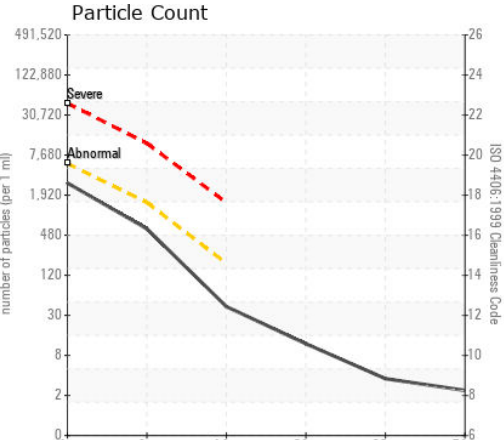
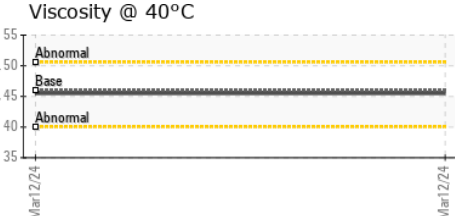
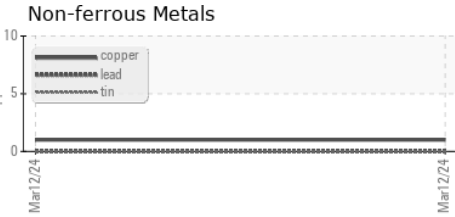
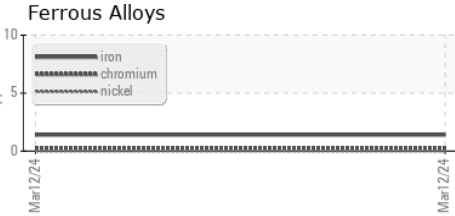
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
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>.5%</b>	---	---
Free Water	scalar	Visual*		▲ <b>1%</b>	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.0	<b>45.5</b>	---	---

### SAMPLE IMAGES

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

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0900560 **Received** : 13 Mar 2024  
**Lab Number** : **02621786** **Tested** : 14 Mar 2024  
**Unique Number** : 5746905 **Diagnosed** : 15 Mar 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KF, pH, ReserveAlk, TAN Man )

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 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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