



# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id  
**2222**  
 Component  
**Diesel Engine**  
 Fluid  
**SAE 5W30 (--- LTR)**

## DIAGNOSIS

- Recommendation**  
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.
- Wear**  
Metal levels are typical for a new component breaking in.
- Contamination**  
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.
- Fluid Condition**  
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0886652</b>	---	---
Sample Date	Client Info	<b>20 Jan 2024</b>	---	---
Machine Age	mls Client Info	<b>59374</b>	---	---
Oil Age	mls Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	---	---
Glycol	WC Method	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185(m) >100	<b>29</b>	---	---
Chromium ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel ppm	ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Titanium ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver ppm	ASTM D5185(m) >3	<b>0</b>	---	---
Aluminum ppm	ASTM D5185(m) >20	<b>4</b>	---	---
Lead ppm	ASTM D5185(m) >40	<b>0</b>	---	---
Copper ppm	ASTM D5185(m) >330	<b>9</b>	---	---
Tin ppm	ASTM D5185(m) >15	<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>1</b>	---	---
Barium ppm	ASTM D5185(m)	<b>0</b>	---	---
Molybdenum ppm	ASTM D5185(m)	<b>46</b>	---	---
Manganese ppm	ASTM D5185(m)	<b>3</b>	---	---
Magnesium ppm	ASTM D5185(m)	<b>365</b>	---	---
Calcium ppm	ASTM D5185(m)	<b>852</b>	---	---
Phosphorus ppm	ASTM D5185(m)	<b>506</b>	---	---
Zinc ppm	ASTM D5185(m)	<b>578</b>	---	---
Sulfur ppm	ASTM D5185(m)	<b>1386</b>	---	---
Lithium ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

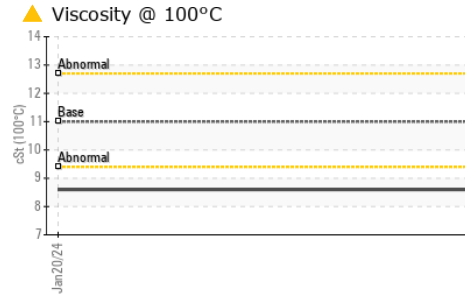
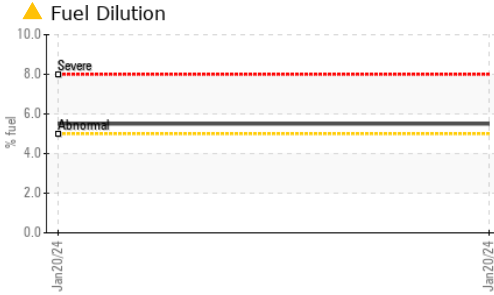
method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m) >25	<b>16</b>	---	---
Sodium ppm	ASTM D5185(m)	<b>4</b>	---	---
Potassium ppm	ASTM D5185(m) >20	<b>0</b>	---	---
Fuel %	ASTM D7593* >5	<b>▲ 5.5</b>	---	---

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	ASTM D7844* >3	<b>0</b>	---	---
Nitration Abs/cm	ASTM D7624* >20	<b>12.9</b>	---	---
Sulfation Abs./1mm	ASTM D7415* >30	<b>23.0</b>	---	---



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### FLUID DEGRADATION

method	limit/base	current	history1	history2
Abs/.1mm	ASTM D7414*	>25	---	---

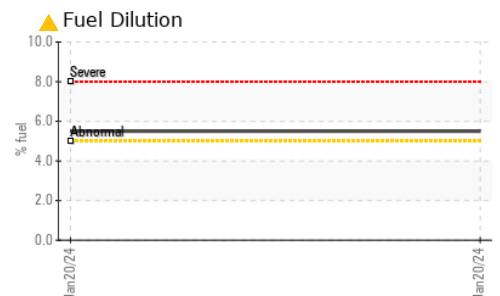
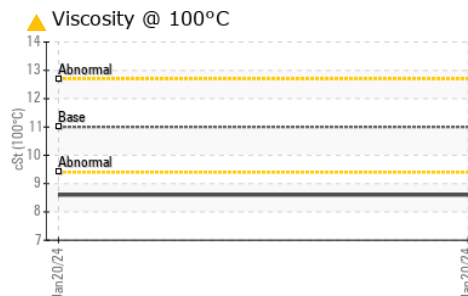
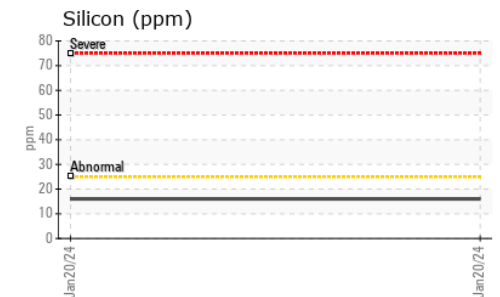
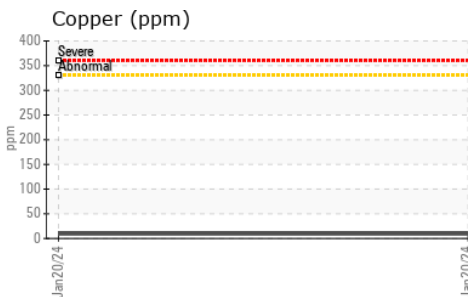
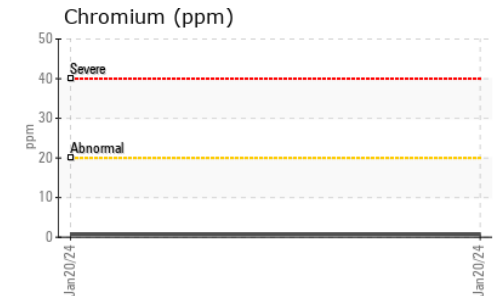
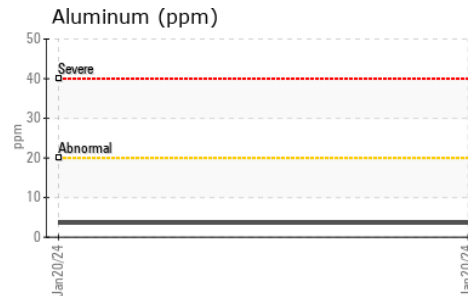
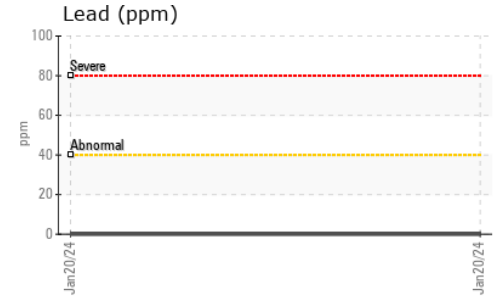
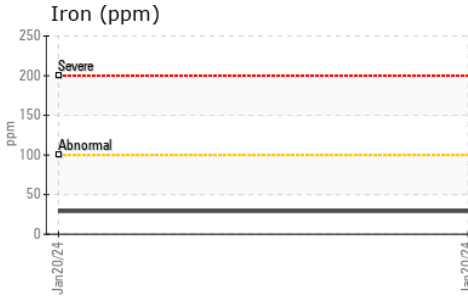
### VISUAL

method	limit/base	current	history1	history2
scalar	Visual*	>0.2	---	---
scalar	Visual*	NEG	---	---

### FLUID PROPERTIES

method	limit/base	current	history1	history2
cSt	ASTM D7279(m)	11.0	---	---

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **MANITOU LIN TRANSPORT (GARAGE)**  
**Sample No.** : WC0886652 **Received** : 23 Jan 2024 1335 SHAWSON DRIVE  
**Lab Number** : 02610519 **Diagnosed** : 24 Jan 2024 MISSISSAUGA, ON  
**Unique Number** : 5711605 **Diagnostician** : Wes Davis CA L4W 1C4  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel ) Contact: Travis Spence

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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