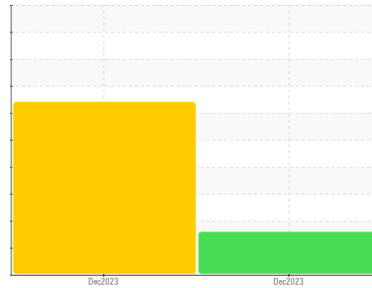




# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id  
**SL885332**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate concentration of dirt present in the oil.

### Fluid Condition

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>WC0886143</b>	WC	---
Sample Date	Client Info		<b>15 Dec 2023</b>	03 Dec 2023	---
Machine Age	hrs	Client Info	<b>4224</b>	4209	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	SEVERE	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	0.0	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>69</b>	▲ 168	---
Chromium	ppm	ASTM D5185(m) >20	<b>4</b>	17	---
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	1	---
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m) >20	<b>11</b>	▲ 51	---
Lead	ppm	ASTM D5185(m) >40	<b>4</b>	25	---
Copper	ppm	ASTM D5185(m) >330	<b>35</b>	11	---
Tin	ppm	ASTM D5185(m) >15	<b>1</b>	4	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	<b>14</b>	9	---
Barium	ppm	ASTM D5185(m) 10	<b>2</b>	2	---
Molybdenum	ppm	ASTM D5185(m) 100	<b>54</b>	54	---
Manganese	ppm	ASTM D5185(m)	<b>15</b>	2	---
Magnesium	ppm	ASTM D5185(m) 450	<b>776</b>	874	---
Calcium	ppm	ASTM D5185(m) 3000	<b>1425</b>	1183	---
Phosphorus	ppm	ASTM D5185(m) 1150	<b>1000</b>	870	---
Zinc	ppm	ASTM D5185(m) 1350	<b>1172</b>	1111	---
Sulfur	ppm	ASTM D5185(m) 4250	<b>2752</b>	2629	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

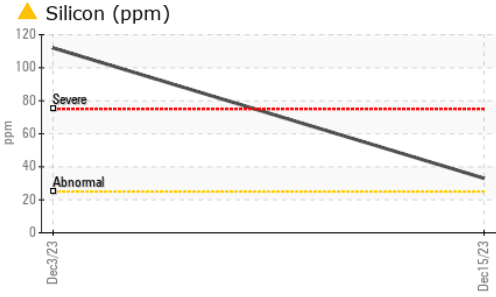
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	▲ <b>33</b>	◆ 112	---
Sodium	ppm	ASTM D5185(m) >158	<b>4</b>	19	---
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	22	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>1</b>	1.1	---
Nitration	Abs/cm	ASTM D7624* >20	<b>7.7</b>	8.6	---
Sulfation	Abs.1mm	ASTM D7415* >30	<b>20.4</b>	21.8	---



# OIL ANALYSIS REPORT

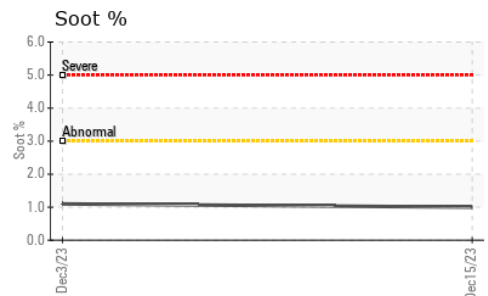
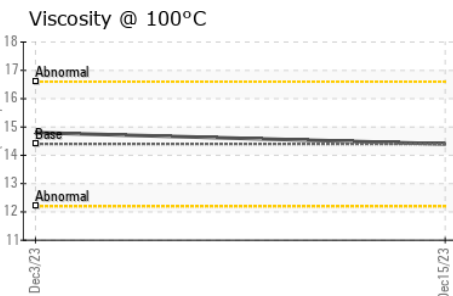
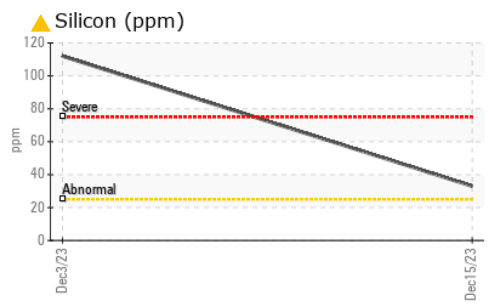
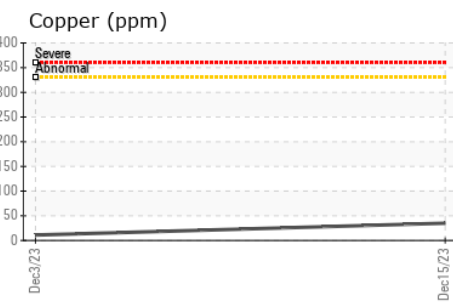
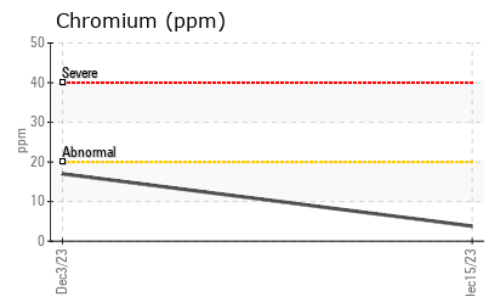
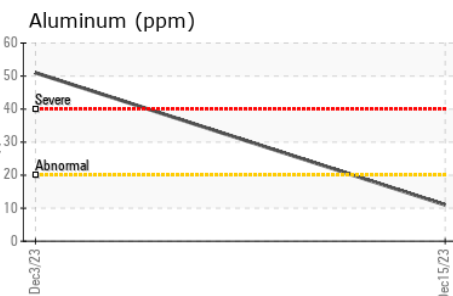
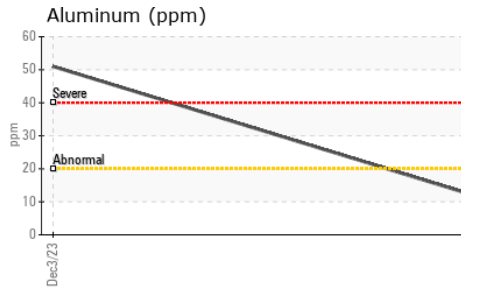
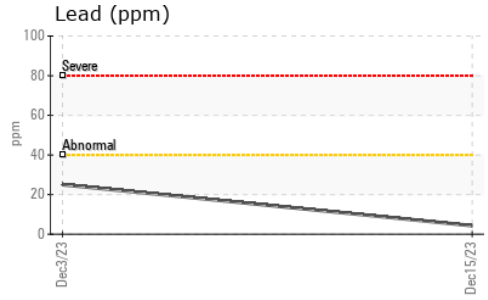
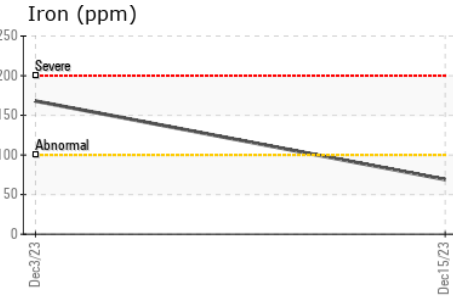
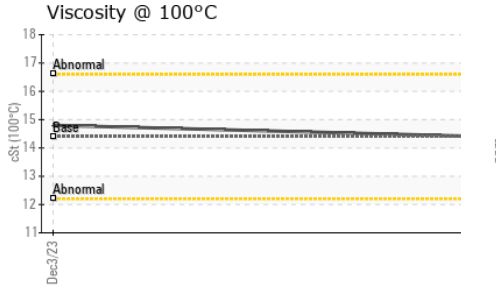


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	>25	<b>14.1</b>	16.3	---

VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar Visual*	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar Visual*		<b>NEG</b>	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D7279(m)	14.4	<b>14.4</b>	14.8	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0886143 **Received** : 27 Dec 2023  
**Lab Number** : 02605269 **Diagnosed** : 28 Dec 2023  
**Unique Number** : 5698354 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1

**Agnico Eagle Canada**  
 1350 Government Rd. W, MACASSA COMPLEX  
 Kirkland Lake, ON  
 CA P2N 3J1  
 Contact: Mike Campbell  
 mike.campbell@agnicoeagle.com  
 T: (705)567-5208  
 F: (705)567-5221

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.