



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**OPG1 MANAGEMENT [151288]**  
 Machine Id  
**33205587**  
 Component  
**Diesel Engine**  
 Fluid  
**VALVOLINE 15W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>CU0022260</b>	---	---
Sample Date	Client Info		<b>10 Dec 2023</b>	---	---
Machine Age	hrs	Client Info	<b>8</b>	---	---
Oil Age	hrs	Client Info	<b>1</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	---	---
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) >65	<b>1</b>	---	---
Chromium	ppm	ASTM D5185(m) >3	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m) >2	<b>17</b>	---	---
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >6	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m) >13	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m) >65	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m) >2	<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) 39	<b>28</b>	---	---
Barium	ppm	ASTM D5185(m) 1	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 49	<b>47</b>	---	---
Manganese	ppm	ASTM D5185(m) 1	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) 616	<b>833</b>	---	---
Calcium	ppm	ASTM D5185(m) 1554	<b>1185</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 899	<b>1026</b>	---	---
Zinc	ppm	ASTM D5185(m) 1069	<b>1150</b>	---	---
Sulfur	ppm	ASTM D5185(m) 2624	<b>2913</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

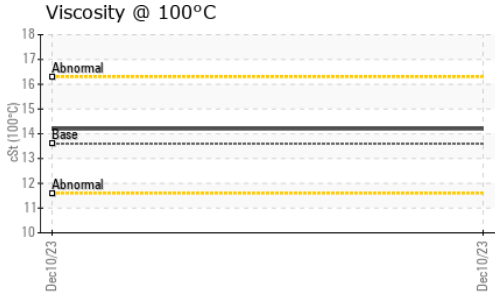
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>3</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>4.6</b>	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>17.4</b>	---	---



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>11.9</b>	---

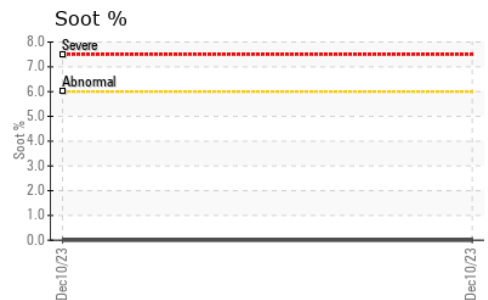
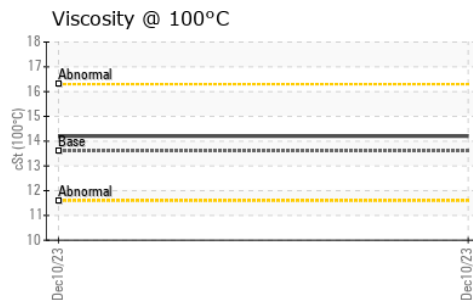
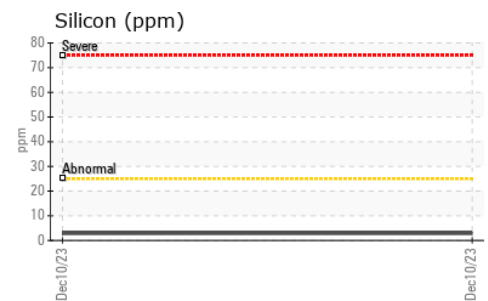
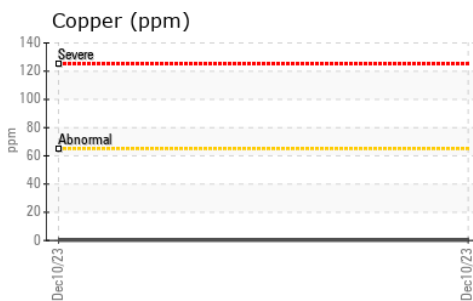
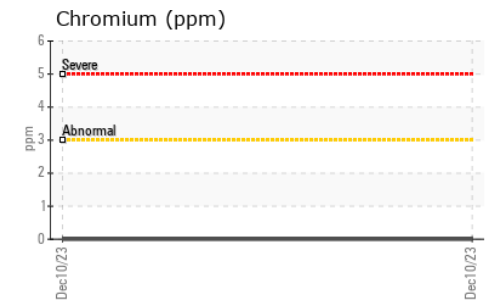
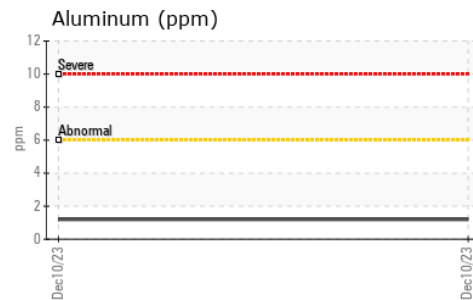
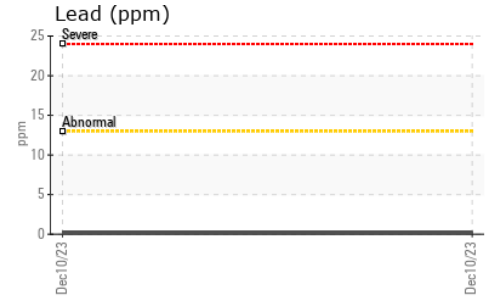
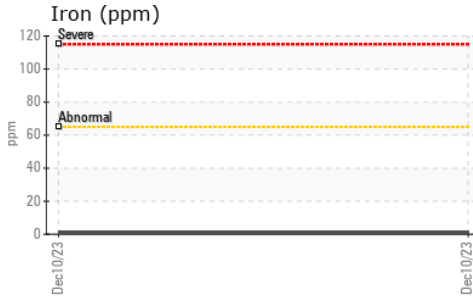
### VISUAL

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

### FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	<b>14.2</b>	---

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS CANADA ULC - GENERATOR DIVISION  
**Sample No.** : CU0022260 **Received** : 19 Jan 2024 7175 PACIFIC CIRCLE  
**Lab Number** : 02609911 **Diagnosed** : 19 Jan 2024 MISSISSAUGA, ON  
**Unique Number** : 5710997 **Diagnostician** : Wes Davis CA L5T 2A5  
**Test Package** : MOB 1 Contact: Elisia Johnson

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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