



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[205585]**  
 Machine Id  
**312401**  
 Component  
**Diesel Engine**  
 Fluid  
**NOT GIVEN (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
 Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

Metal levels are typical for a components first oil change.

### 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>CU0022105</b>	---	---
Sample Date	Client Info		<b>20 Oct 2023</b>	---	---
Machine Age	kms	Client Info	<b>53023</b>	---	---
Oil Age	kms	Client Info	<b>53023</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</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) >90	<b>63</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>14</b>	---	---
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m) >330	<b>7</b>	---	---
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</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>16</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>6</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>130</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>6</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>718</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>1412</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>656</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>808</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>2343</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

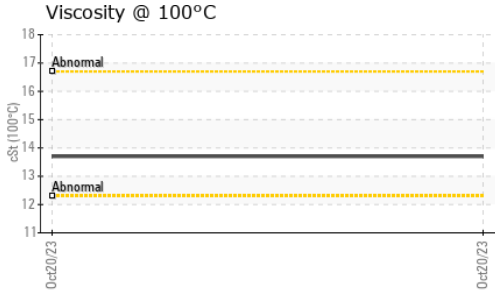
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>16</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>5</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>8.1</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>23.0</b>	---	---

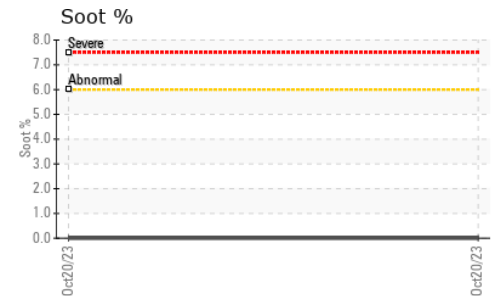
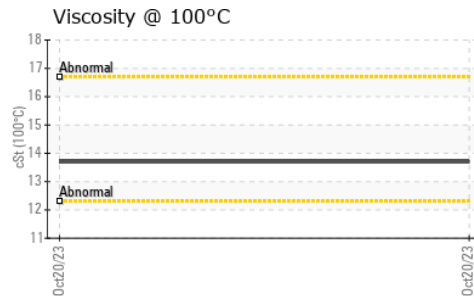
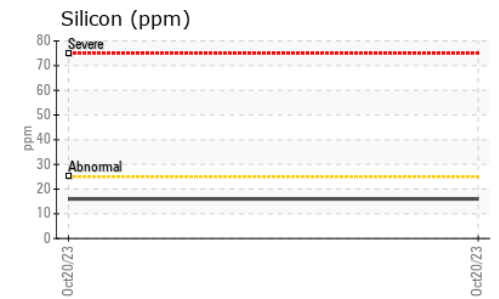
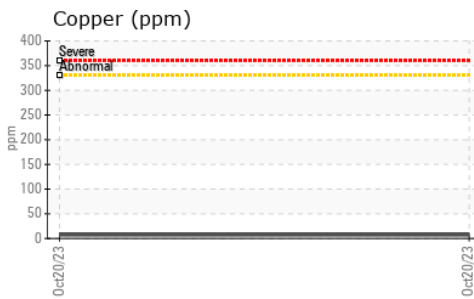
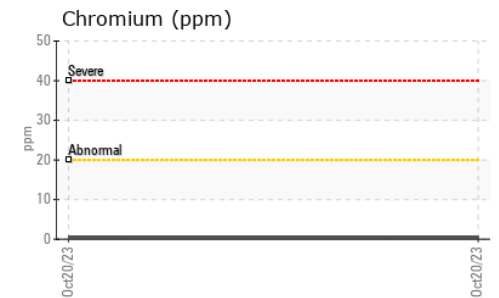
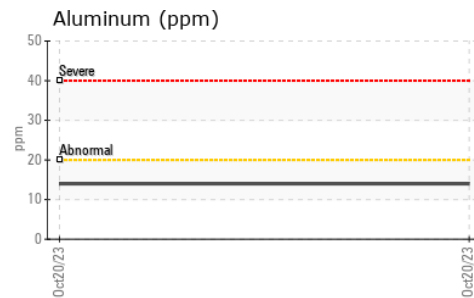
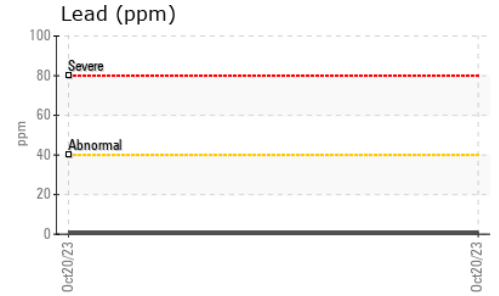
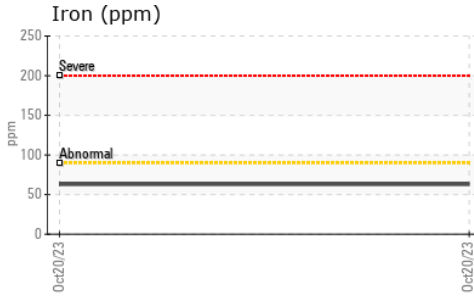


# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>16.7</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)		<b>13.7</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0022105 **Received** : 24 Oct 2023  
**Lab Number** : **02591273** **Diagnosed** : 24 Oct 2023  
**Unique Number** : 5668352 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**CUMMINS CANADA ULC**  
 7200 TRANS CANADA HWY.  
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 CA H9R 1C2  
 Contact: Karelle Paradis  
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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.