



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**2252**  
Component  
**Diesel Engine**  
Fluid  
**SHELL ROTELLA T6 5W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### 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>CU0019183</b>	---	---
Sample Date	Client Info		<b>01 Mar 2024</b>	---	---
Machine Age	mls	Client Info	<b>663331</b>	---	---
Oil Age	mls	Client Info	<b>23000</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)	>90	<b>13</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>0</b>	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</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>80</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>85</b>	---
Calcium	ppm	ASTM D5185(m)		<b>1978</b>	---
Phosphorus	ppm	ASTM D5185(m)		<b>894</b>	---
Zinc	ppm	ASTM D5185(m)		<b>1079</b>	---
Sulfur	ppm	ASTM D5185(m)		<b>2716</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

## CONTAMINANTS

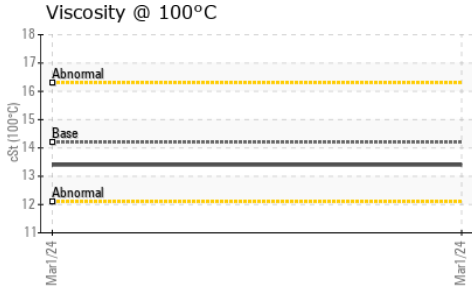
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	---
Sodium	ppm	ASTM D5185(m)		<b>3</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	<b>0.4</b>	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.3</b>	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>23.2</b>	---



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### FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Oxidation	Abs:1mm ASTM D7414*	<b>18.5</b>	---	---

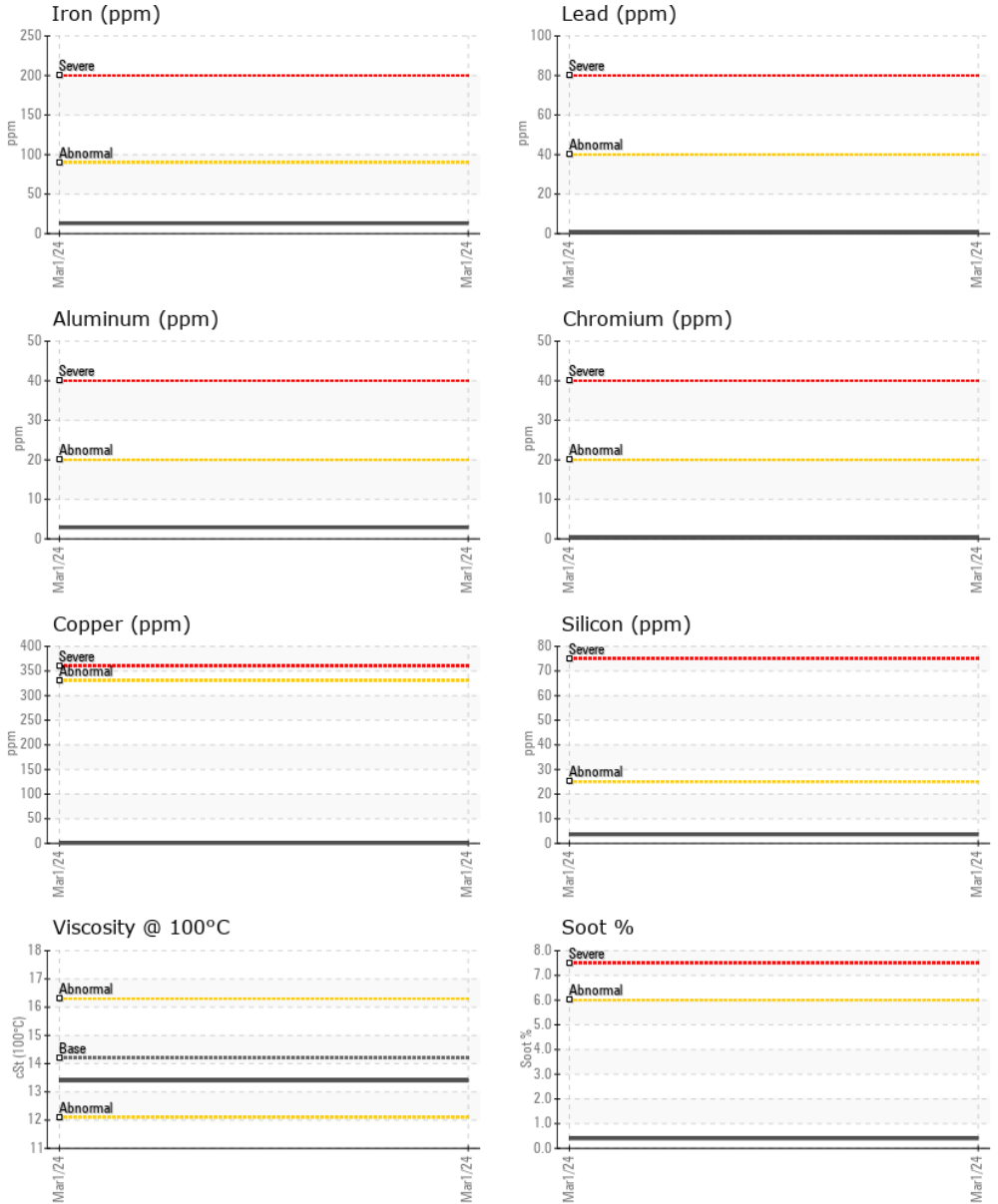
### VISUAL

Method	Limit/Base	Current	History1	History2
Emulsified Water	scalar Visual*	<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>13.4</b>	---	---

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0019183      **Received** : 11 Mar 2024  
**Lab Number** : **02621048**      **Tested** : 11 Mar 2024  
**Unique Number** : 5746167      **Diagnosed** : 11 Mar 2024 - Wes Davis  
**Test Package** : MOB 1

**CUMMINS DIESEL**  
 50 SIMMONDS DRIVE  
 DARTMOUTH, NS  
 CA B3B 1R3  
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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.