

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[6100240815]**  
Machine Id  
**924942U1349812**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 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>WA0021050</b>	---	---
Sample Date	Client Info		<b>05 Jan 2024</b>	---	---
Machine Age	hrs	Client Info	<b>175</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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) >100	<b>15</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >4	<b>0</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>10</b>	---	---
Copper	ppm	ASTM D5185(m) >330	<b>15</b>	---	---
Tin	ppm	ASTM D5185(m) >15	<b>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) 250	<b>216</b>	---	---
Barium	ppm	ASTM D5185(m) 10	<b>1</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 100	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>2</b>	---	---
Magnesium	ppm	ASTM D5185(m) 450	<b>18</b>	---	---
Calcium	ppm	ASTM D5185(m) 3000	<b>4346</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	<b>991</b>	---	---
Zinc	ppm	ASTM D5185(m) 1350	<b>1096</b>	---	---
Sulfur	ppm	ASTM D5185(m) 4250	<b>2615</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

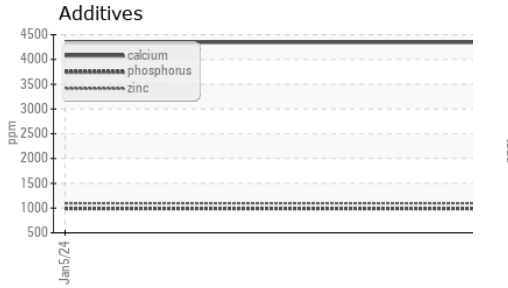
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>16</b>	---	---
Sodium	ppm	ASTM D5185(m) >158	<b>3</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>3</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>11.3</b>	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>16.3</b>	---	---

# OIL ANALYSIS REPORT



**FLUID DEGRADATION** method limit/base current history1 history2

Oxidation	Abs./1mm	ASTM D7414*	>25	<b>10.8</b>	---	---
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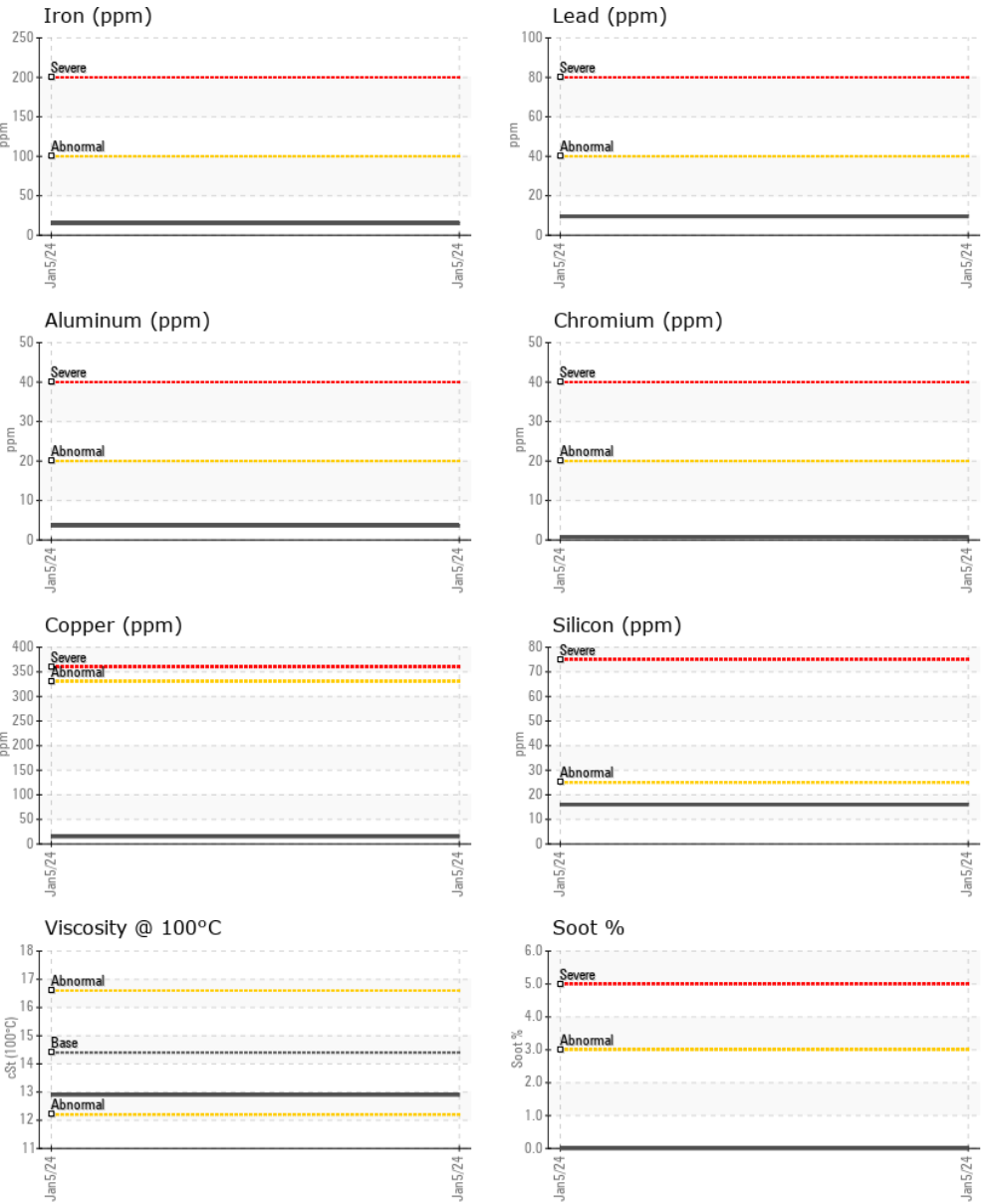
**VISUAL** method limit/base current history1 history2

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)	14.4	<b>12.9</b>	---	---
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**GRAPHS**



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0021050 **Received** : 16 Jan 2024  
**Lab Number** : 02608942 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5710028 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.