



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id

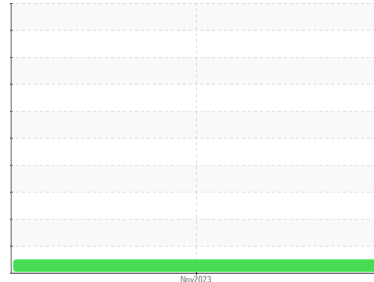
**9796**

Component

**Diesel Engine**

Fluid

**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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>WC0853255</b>	---	---
Sample Date	Client Info		<b>19 Nov 2023</b>	---	---
Machine Age	kms	Client Info	<b>101976</b>	---	---
Oil Age	kms	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	>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>17</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>6</b>	---	---
Lead	ppm	ASTM D5185(m) >40	<b>0</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) 250	<b>50</b>	---	---
Barium	ppm	ASTM D5185(m) 10	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 100	<b>3</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) 450	<b>723</b>	---	---
Calcium	ppm	ASTM D5185(m) 3000	<b>1315</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	<b>709</b>	---	---
Zinc	ppm	ASTM D5185(m) 1350	<b>766</b>	---	---
Sulfur	ppm	ASTM D5185(m) 4250	<b>2593</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

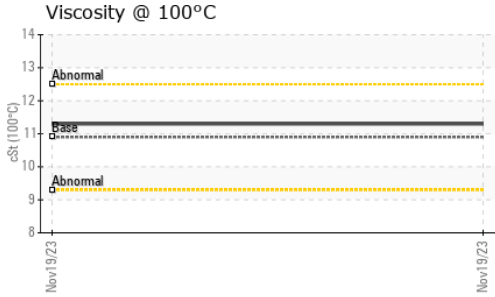
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>5</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>14</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	<b>0.1</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>9.8</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>20.8</b>	---	---

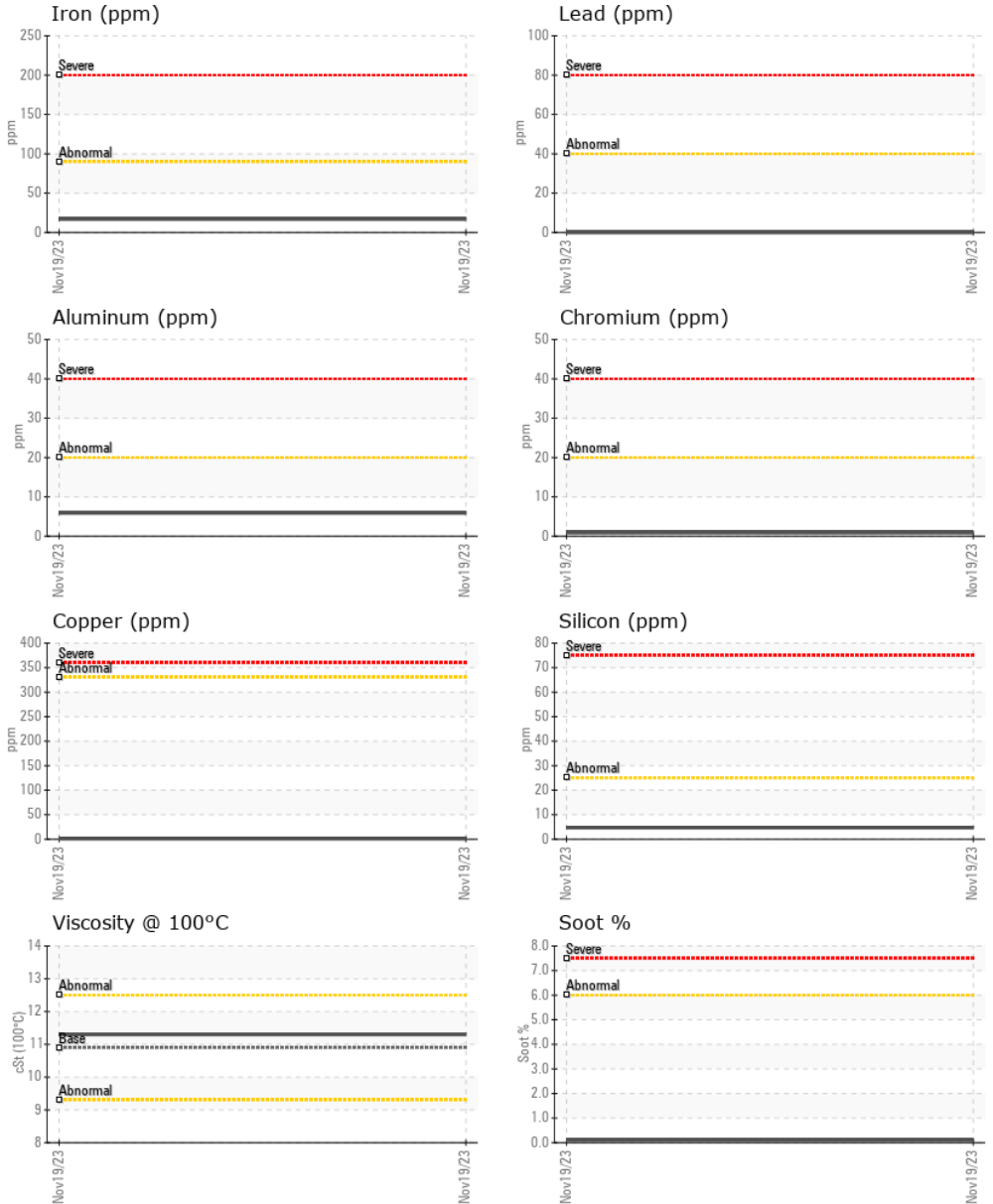


# OIL ANALYSIS REPORT



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)	10.9	<b>11.3</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0853255 **Received** : 09 Jan 2024  
**Lab Number** : **02607462** **Diagnosed** : 09 Jan 2024  
**Unique Number** : 5708548 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**Rush Truck Centres**  
 7450 Torbram Rd.  
 Mississauga, ON  
 CA L4T 1G9  
 Contact: Serdar Okur  
 sokur@rushtruckcentres.ca  
 T: (905)671-7600  
 F:

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.