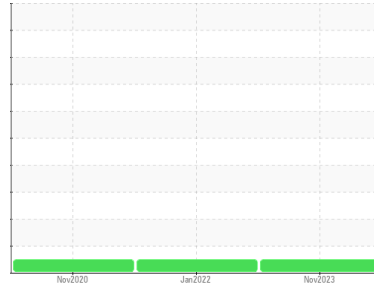




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[42164661]**  
 Machine Id  
**7291**

Component  
**Diesel Engine**  
 Fluid

**DIESEL ENGINE OIL SAE 15W40 (--- 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>WC0853085</b>	WC0654533	WC0502780
Sample Date	Client Info			<b>12 Nov 2023</b>	22 Jan 2022	22 Nov 2020
Machine Age	kms	Client Info		<b>183455</b>	116100	0
Oil Age	kms	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>50</b>	60	24
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>5</b>	7	2
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	4	5
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

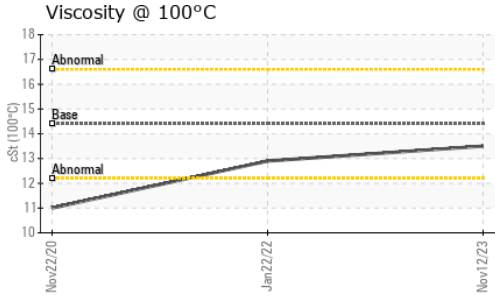
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>10</b>	10	76
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>47</b>	54	2
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>845</b>	976	699
Calcium	ppm	ASTM D5185(m)	3000	<b>1163</b>	1169	1342
Phosphorus	ppm	ASTM D5185(m)	1150	<b>875</b>	961	670
Zinc	ppm	ASTM D5185(m)	1350	<b>1060</b>	1197	781
Sulfur	ppm	ASTM D5185(m)	4250	<b>2706</b>	2652	2638
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	5	5
Sodium	ppm	ASTM D5185(m)	>158	<b>3</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	3

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>2</b>	1.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>15.4</b>	14.8	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.4</b>	24.5	18.5

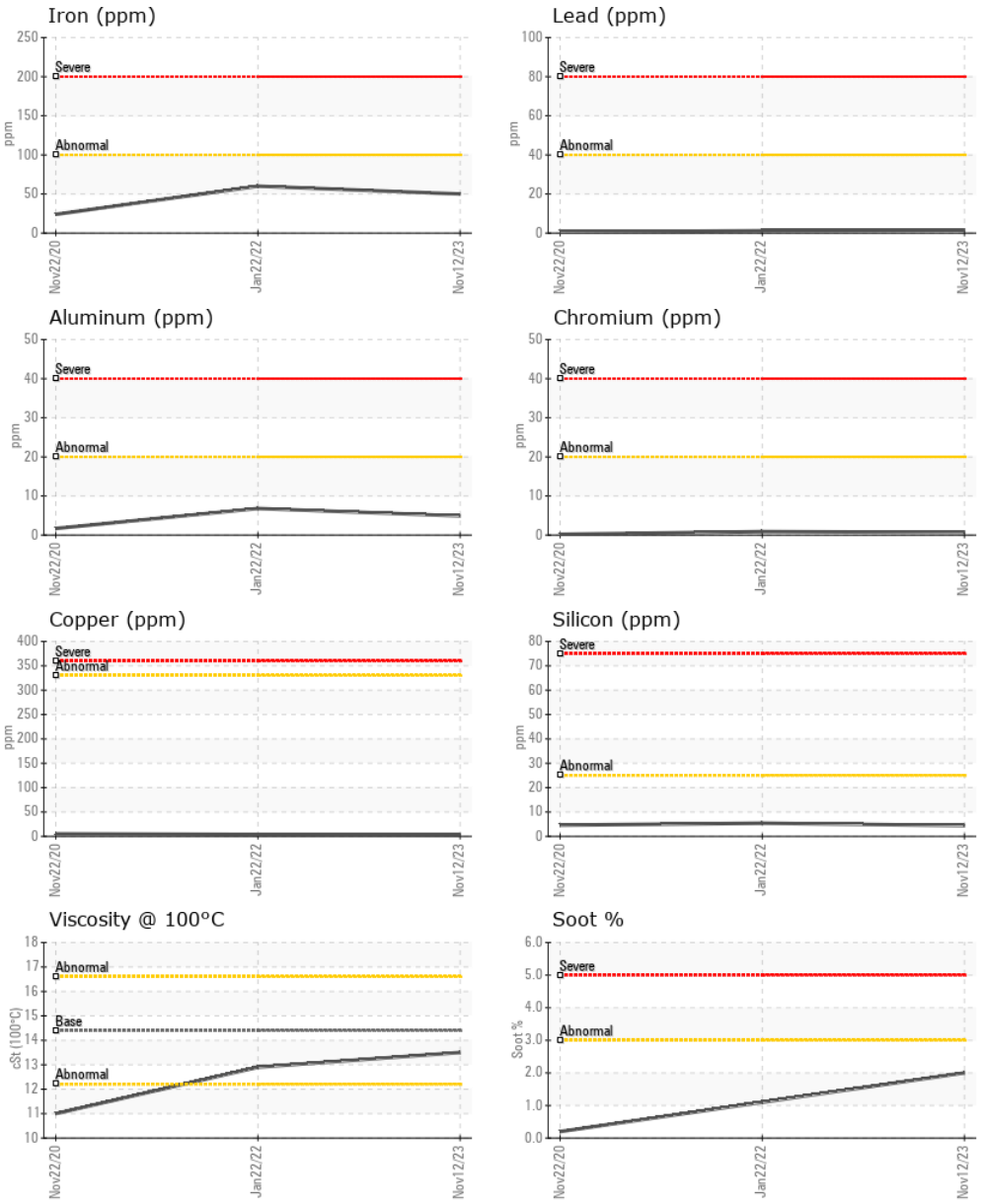


# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>22.6</b>	20.4	13.8
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.5</b>	12.9	11.0

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0853085 **Received** : 09 Jan 2024  
**Lab Number** : **02607430** **Diagnosed** : 09 Jan 2024  
**Unique Number** : 5708516 **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.