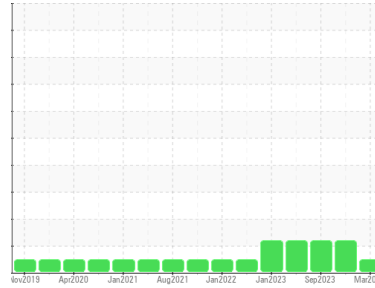




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**[43977880]**

Machine Id  
**9460**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- 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>WC0924126</b>	WC0853186	WC0853357
Sample Date	Client Info		<b>30 Mar 2024</b>	06 Jan 2024	24 Sep 2023
Machine Age	kms	Client Info	<b>377467</b>	365984	350233
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<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)	>165	<b>39</b>	34	53
Chromium	ppm	ASTM D5185(m)	>5	<b>2</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	5	8
Lead	ppm	ASTM D5185(m)	>150	<b>4</b>	3	7
Copper	ppm	ASTM D5185(m)	>90	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m)	>5	<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	0
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>29</b>	33	31
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>&lt;1</b>	3	6
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>689</b>	654	711
Calcium	ppm	ASTM D5185(m)	3000	<b>1255</b>	1232	1288
Phosphorus	ppm	ASTM D5185(m)	1150	<b>625</b>	631	660
Zinc	ppm	ASTM D5185(m)	1350	<b>722</b>	697	758
Sulfur	ppm	ASTM D5185(m)	4250	<b>2239</b>	2347	2344
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

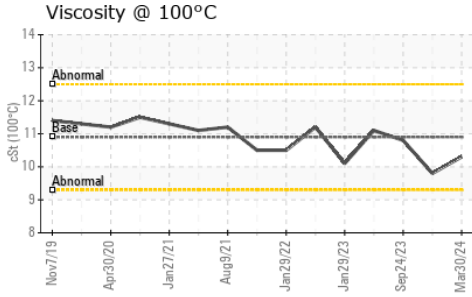
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>35	<b>4</b>	5	6
Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	4	15

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>7.5	<b>0.6</b>	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.5</b>	12.3	14.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>27.2</b>	28.1	29.4



# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
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Oxidation	Abs./1mm	ASTM D7414*	>25	<b>27.4</b>	▲ 30.0	▲ 30.0
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VISUAL		method	limit/base	current	history1	history2
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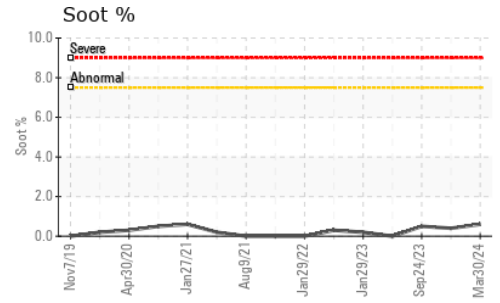
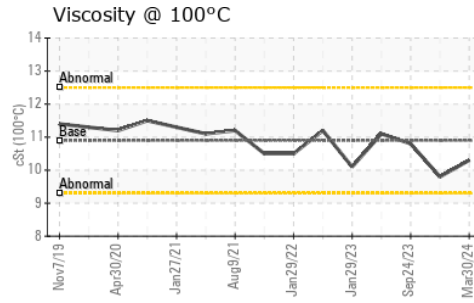
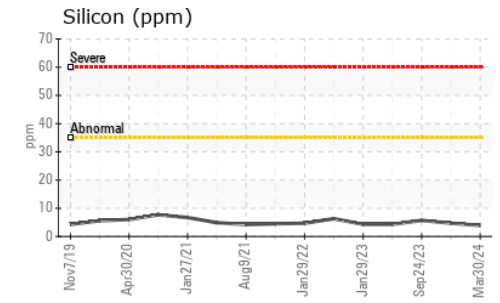
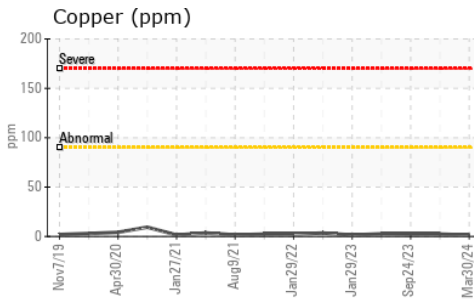
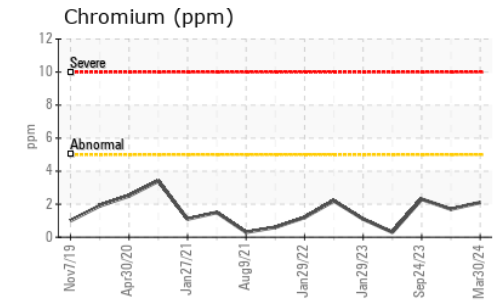
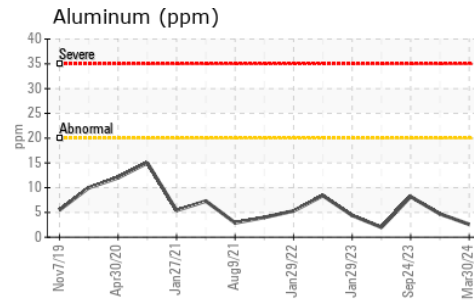
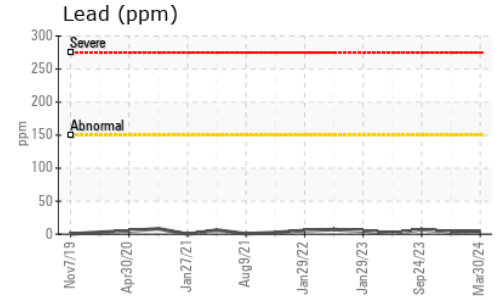
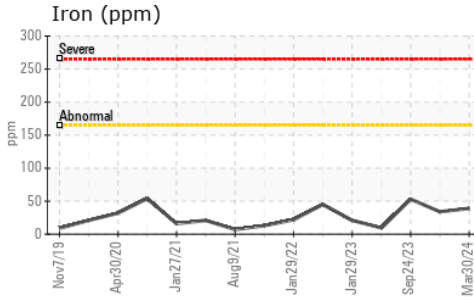
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
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Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG
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FLUID PROPERTIES		method	limit/base	current	history1	history2
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Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>10.3</b>	9.8	10.8
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0924126 **Received** : 02 Apr 2024  
**Lab Number** : **02626031** **Tested** : 02 Apr 2024  
**Unique Number** : 5759163 **Diagnosed** : 03 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1

**Rush Truck Centres**  
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 Mississauga, ON  
 CA L4T 1G9  
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 sokur@rushtruckcentres.ca  
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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.