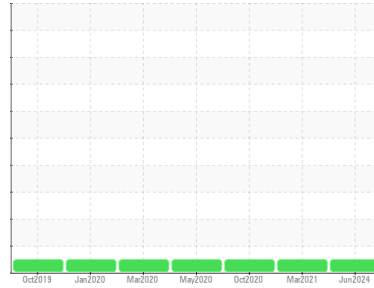




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**9418**

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>WC0924249</b>	WC0549842	WC0385515
Sample Date	Client Info			<b>20 Jun 2024</b>	18 Mar 2021	14 Oct 2020
Machine Age	kms	Client Info		<b>0</b>	189035	173530
Oil Age	kms	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Not Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

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	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	<b>10</b>	12	62
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	4
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	10
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	2	7
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	3	13
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	2
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

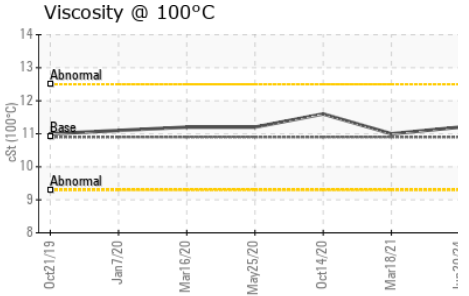
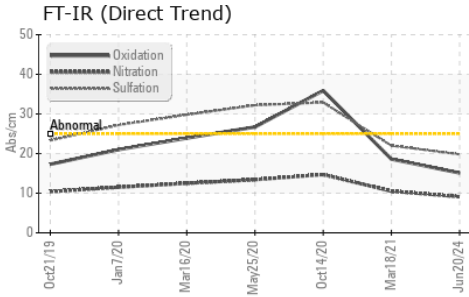
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>67</b>	52	26
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>10</b>	2	5
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185(m)	450	<b>695</b>	697	745
Calcium	ppm	ASTM D5185(m)	3000	<b>1319</b>	1287	1394
Phosphorus	ppm	ASTM D5185(m)	1150	<b>670</b>	676	700
Zinc	ppm	ASTM D5185(m)	1350	<b>773</b>	789	847
Sulfur	ppm	ASTM D5185(m)	4250	<b>2414</b>	2538	2532
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>3</b>	4	8
Sodium	ppm	ASTM D5185(m)		<b>2</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	6	16

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	<b>0</b>	0.1	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.1</b>	10.5	14.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	22.0	32.9



# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2
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Oxidation	Abs./1mm	ASTM D7414*	>25	15.1	18.6	35.9
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VISUAL	method	limit/base	current	history1	history2
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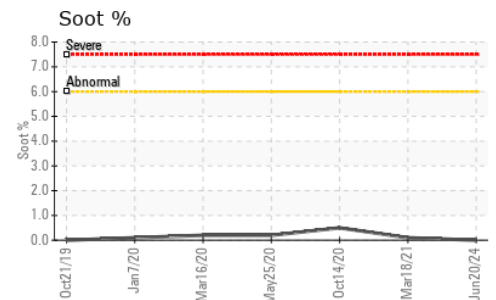
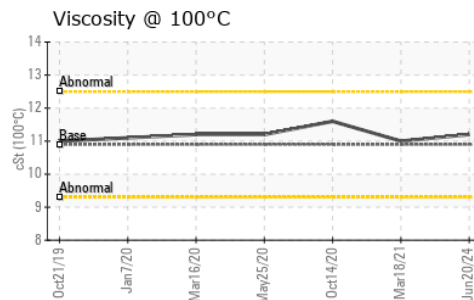
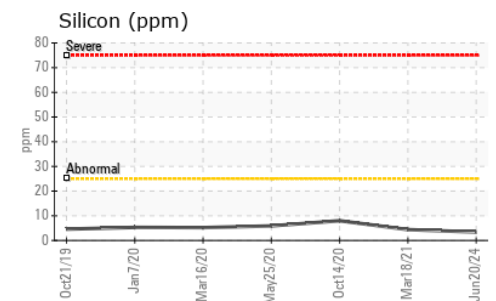
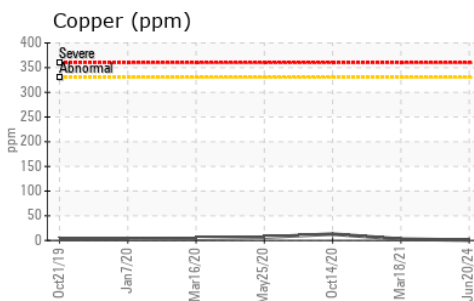
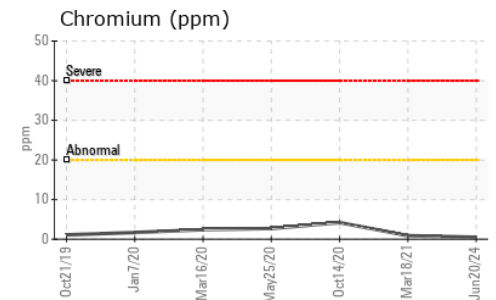
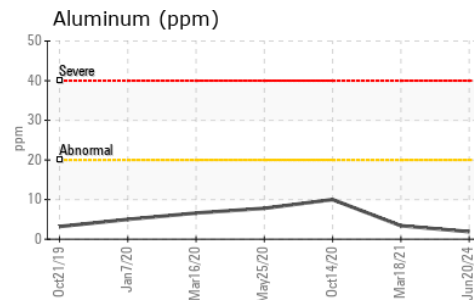
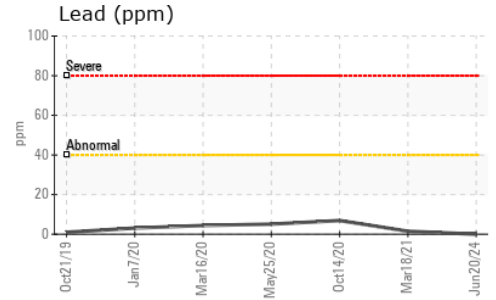
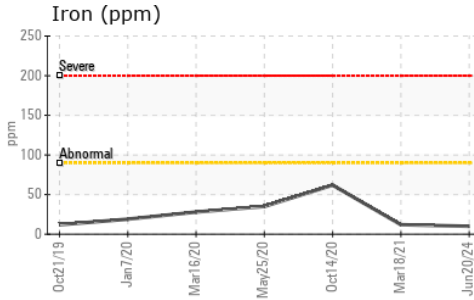
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
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Free Water	scalar	Visual*		NEG	NEG	NEG
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FLUID PROPERTIES	method	limit/base	current	history1	history2
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Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.2	11.0	11.6
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0924249  
**Lab Number** : 02643896  
**Unique Number** : 5801435  
**Test Package** : MOB 1  
**Received** : 25 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Wes Davis

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