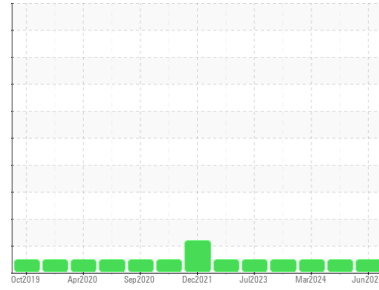




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**[44952891]**

Machine Id

**9475**

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>WC0924202</b>	WC0924203	WC0853474
Sample Date	Client Info		<b>08 Jun 2024</b>	08 Jun 2024	15 Mar 2024
Machine Age	kms	Client Info	<b>479980</b>	462570	444685
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Not Chngd
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	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	<b>12</b>	12	18
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	2
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<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>52</b>	52	53
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>&lt;1</b>	<1	2
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	450	<b>685</b>	686	665
Calcium	ppm	ASTM D5185(m)	3000	<b>1215</b>	1239	1442
Phosphorus	ppm	ASTM D5185(m)	1150	<b>645</b>	642	733
Zinc	ppm	ASTM D5185(m)	1350	<b>723</b>	736	810
Sulfur	ppm	ASTM D5185(m)	4250	<b>2350</b>	2347	2668
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

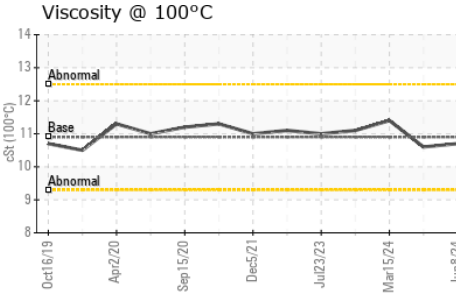
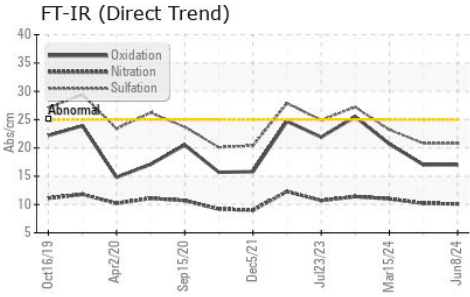
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	4
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	3	4

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>0.4</b>	0.4	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.1</b>	10.2	11.0
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>20.8</b>	20.8	23.2



# OIL ANALYSIS REPORT



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

Oxidation	Abs./1mm	ASTM D7414*	>25	<b>17.0</b>	17.0	20.7
-----------	----------	-------------	-----	-------------	------	------

VISUAL		method	limit/base	current	history1	history2
--------	--	--------	------------	---------	----------	----------

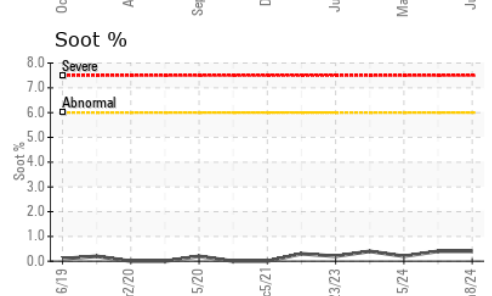
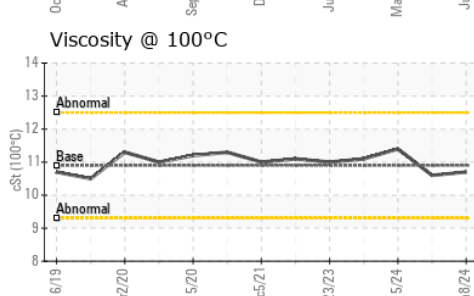
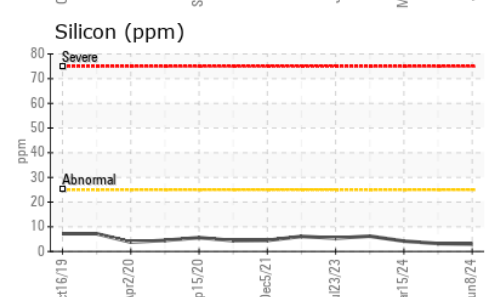
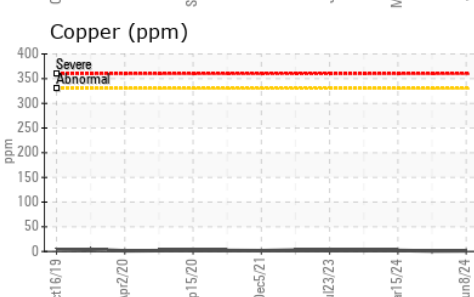
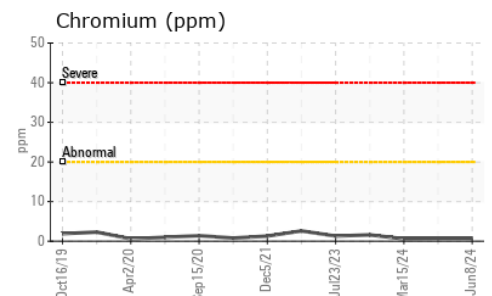
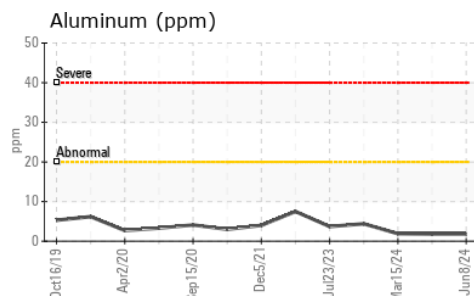
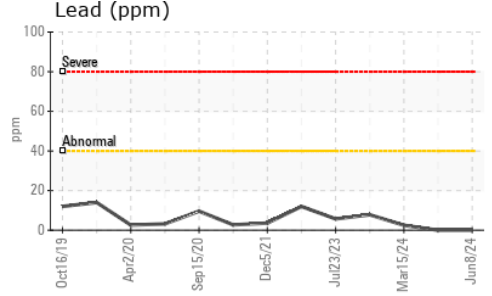
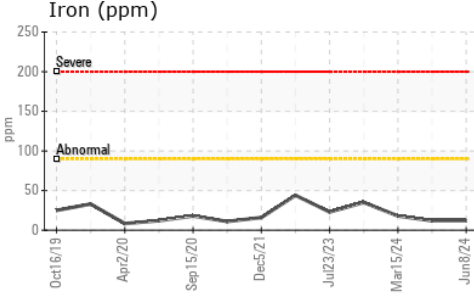
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
------------------	--------	---------	------	------------	-----	-----

Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG
------------	--------	---------	--	------------	-----	-----

FLUID PROPERTIES		method	limit/base	current	history1	history2
------------------	--	--------	------------	---------	----------	----------

Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>10.7</b>	10.6	11.4
--------------	-----	---------------	------	-------------	------	------

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0924202      **Received** : 25 Jun 2024  
**Lab Number** : **02643916**      **Tested** : 25 Jun 2024  
**Unique Number** : 5801455      **Diagnosed** : 25 Jun 2024 - 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.