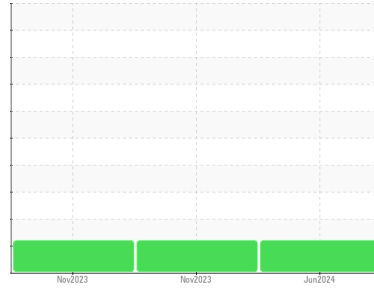




# OIL ANALYSIS REPORT

## Sample Rating Trend



FUEL



Machine Id

**7503**

Component

**Diesel Engine**

Fluid

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

#### Wear

All component wear rates are normal.

#### 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. Light fuel dilution occurring. No other contaminants were detected 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>WC0924246</b>	WC0853083	WC0796585
Sample Date	Client Info		<b>22 Jun 2024</b>	17 Nov 2023	16 Nov 2023
Machine Age	kms	Client Info	<b>332430</b>	41455	70706
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
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>41</b>	54	25
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</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>9</b>	14	14
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	7	<1
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	24	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	3	0
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>27</b>	41	45
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	5	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>3</b>	62	2
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	5	0
Magnesium	ppm	ASTM D5185(m)	450	<b>681</b>	419	717
Calcium	ppm	ASTM D5185(m)	3000	<b>1233</b>	1639	1322
Phosphorus	ppm	ASTM D5185(m)	1150	<b>619</b>	928	652
Zinc	ppm	ASTM D5185(m)	1350	<b>727</b>	1122	730
Sulfur	ppm	ASTM D5185(m)	4250	<b>2301</b>	2446	2566
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

### CONTAMINANTS

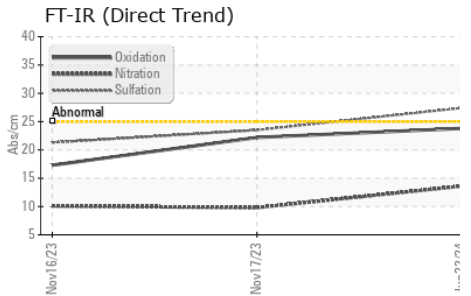
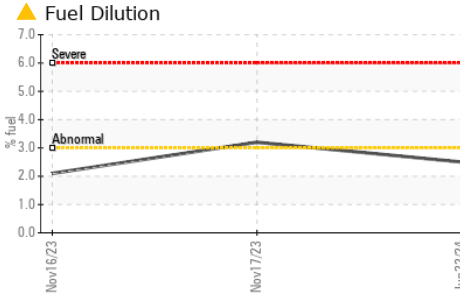
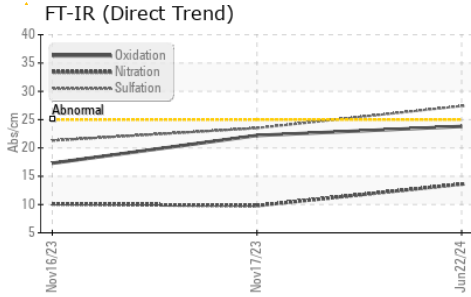
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>7</b>	37	5
Sodium	ppm	ASTM D5185(m)	>158	<b>3</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>14</b>	43	18
Fuel	%	ASTM D7593*	>3.0	<b>▲ 2.5</b>	▲ 3.2	▲ 2.1

### INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>1</b>	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.6</b>	9.8	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>27.4</b>	23.5	21.3



# OIL ANALYSIS REPORT

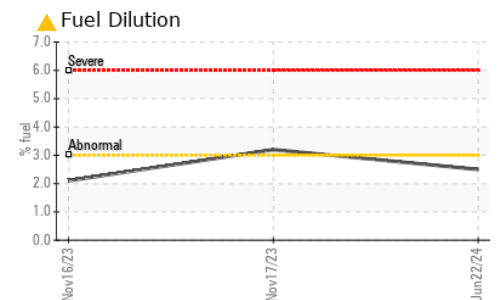
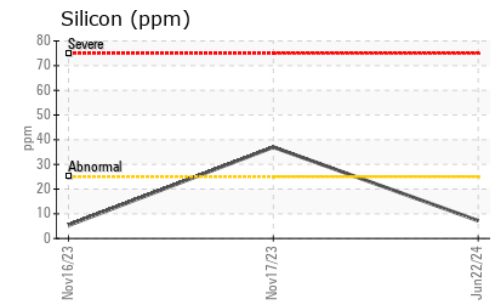
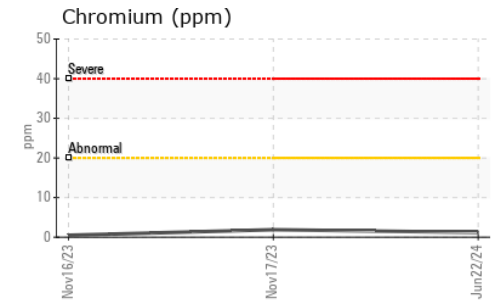
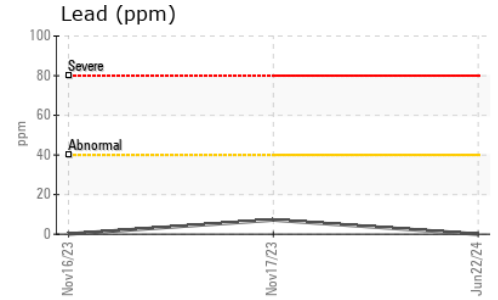
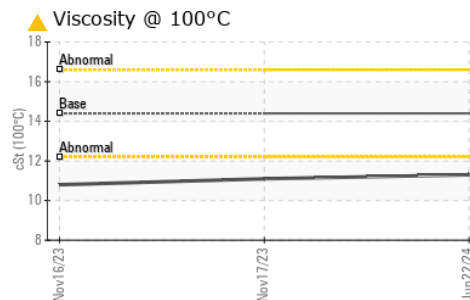
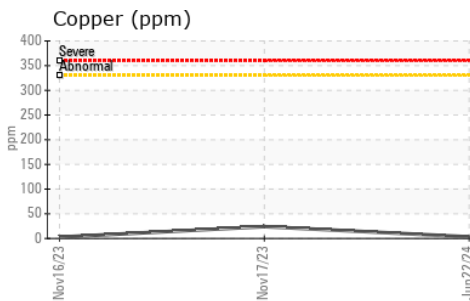
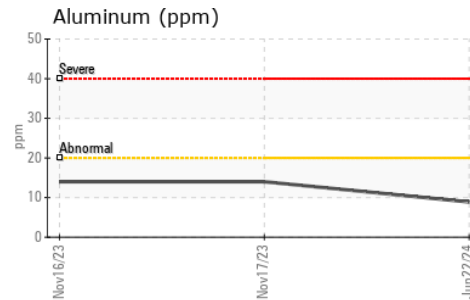
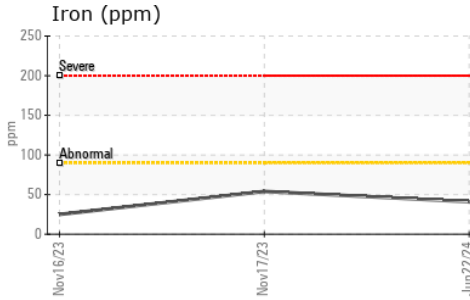


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>23.8</b>	22.2	17.3

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>▲ 11.3</b>	▲ 11.1	▲ 10.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0924246 **Received** : 25 Jun 2024  
**Lab Number** : **02643891** **Tested** : 26 Jun 2024  
**Unique Number** : 5801430 **Diagnosed** : 26 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

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.

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