



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**1837**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0913059</b>	WC0895794	WC0873842
Sample Date		Client Info		<b>19 Mar 2024</b>	31 Jan 2024	21 Nov 2023
Machine Age	hrs	Client Info		<b>21376</b>	20805	20208
Oil Age	hrs	Client Info		<b>571</b>	597	559
Filter Age	hrs	Client Info		<b>0</b>	597	559
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>14</b>	14	14
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	3	4
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

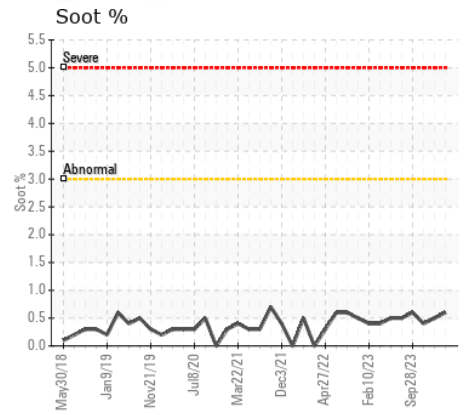
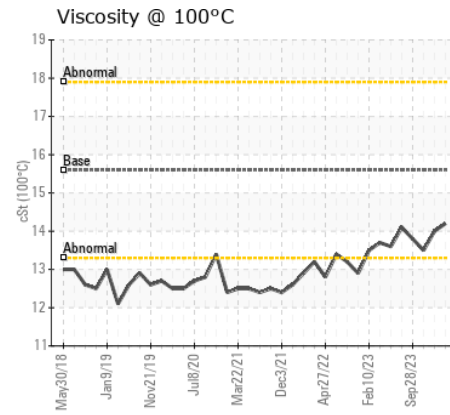
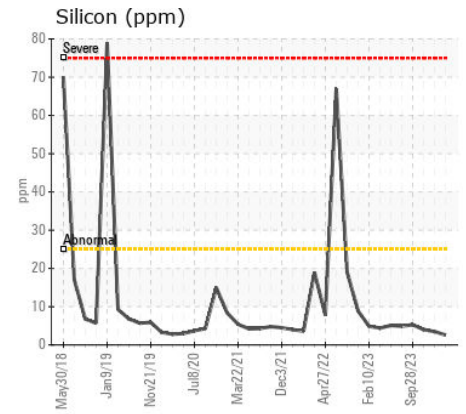
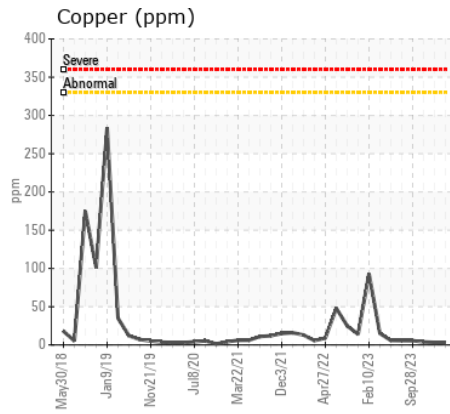
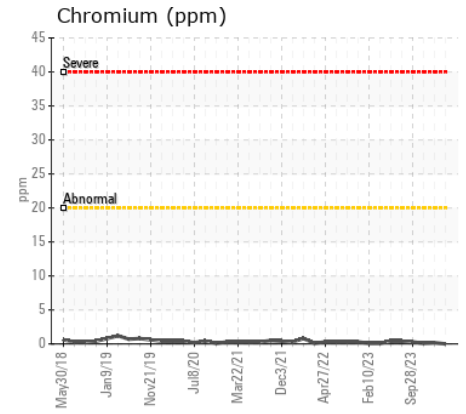
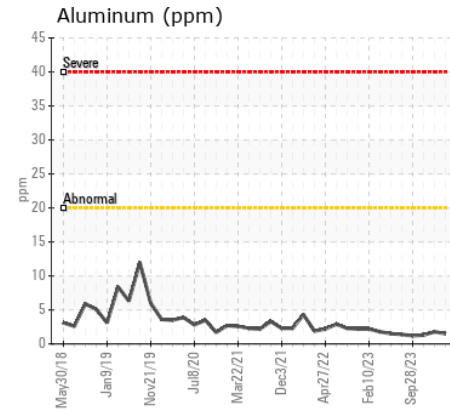
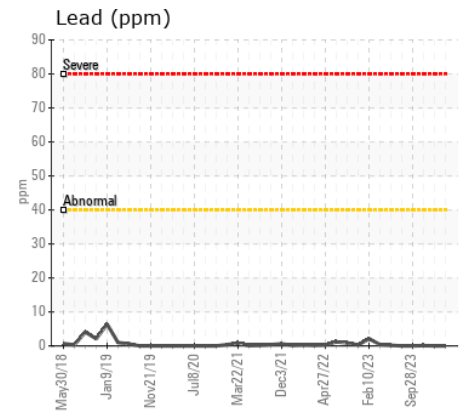
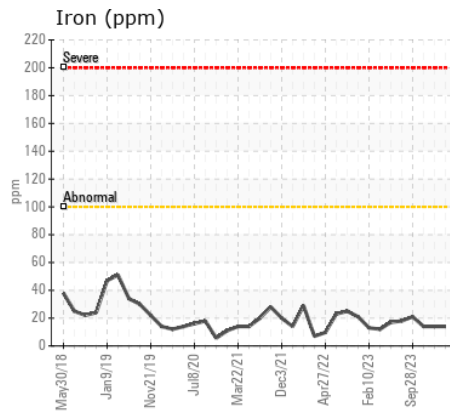
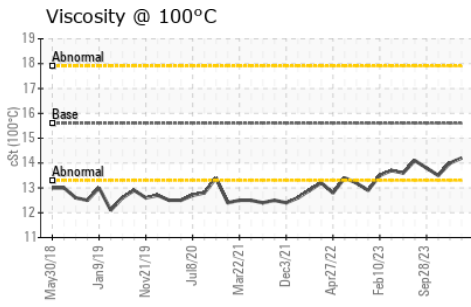
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
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
Soot %	%	ASTM D7844*	>3	<b>0.6</b>	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.3</b>	9.4	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.6</b>	22.5	24.9
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	1	2
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2	1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>59</b>	57	58
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>968</b>	927	936
Calcium	ppm	ASTM D5185(m)	1070	<b>1041</b>	1038	1026
Phosphorus	ppm	ASTM D5185(m)	1150	<b>972</b>	953	922
Zinc	ppm	ASTM D5185(m)	1270	<b>1174</b>	1142	1149
Sulfur	ppm	ASTM D5185(m)	2060	<b>2427</b>	2557	2380
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.6</b>	21.3	27.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.2</b>	14.0	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0913059  
**Lab Number** : 02626322  
**Unique Number** : 5759454  
**Test Package** : MOB 1  
**Received** : 03 Apr 2024  
**Tested** : 03 Apr 2024  
**Diagnosed** : 03 Apr 2024 - Wes Davis

**KINGSTON TRANSIT**  
 1181 JOHN COUNTER BLVD  
 KINGSTON, ON  
 CA K7K 6C7  
 Contact: Brent Gunter  
 bgunter@cityofkingston.ca  
 T: (613)546-4291  
 F: (613)542-1504

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.