



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**INTERNATIONAL 51934**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SAE 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0915458</b>	WC0892086	WC0892056
Sample Date		Client Info		<b>14 May 2024</b>	14 Mar 2024	23 Jan 2024
Machine Age	kms	Client Info		<b>317656</b>	293523	429457
Oil Age	kms	Client Info		<b>29133</b>	26948	0
Filter Age	kms	Client Info		<b>29133</b>	26948	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>20</b>	26	47
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</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>4</b>	4	8
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	1	2
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

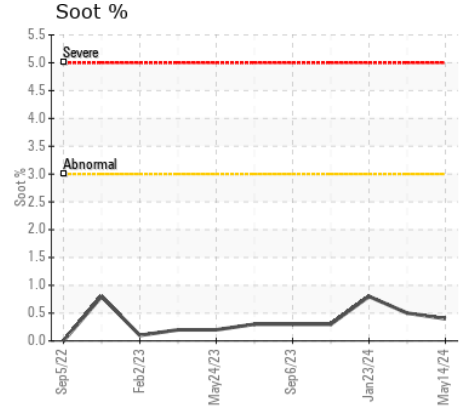
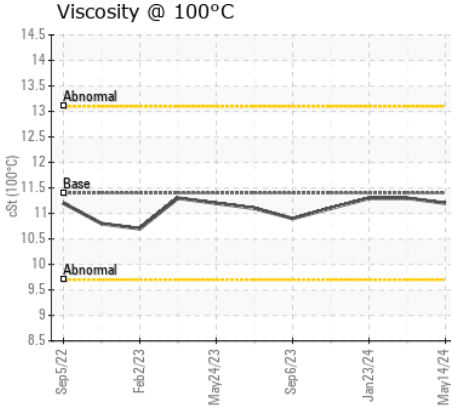
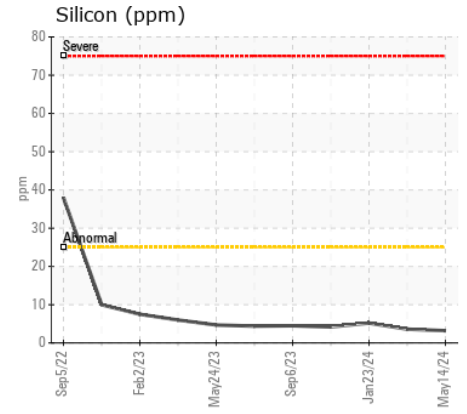
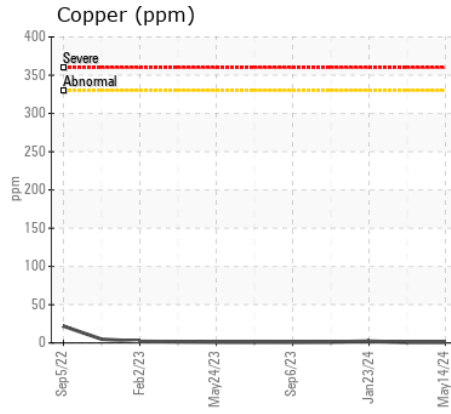
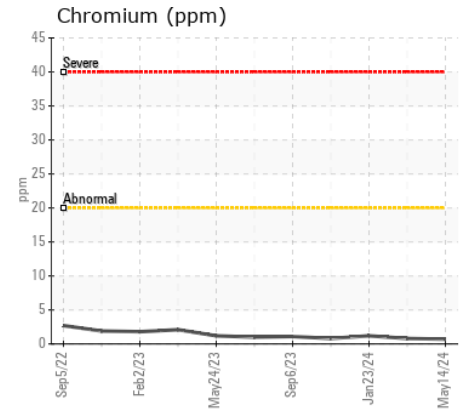
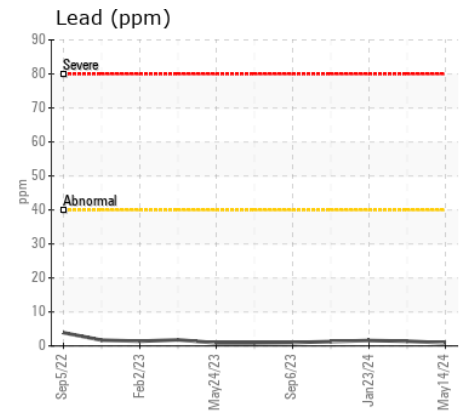
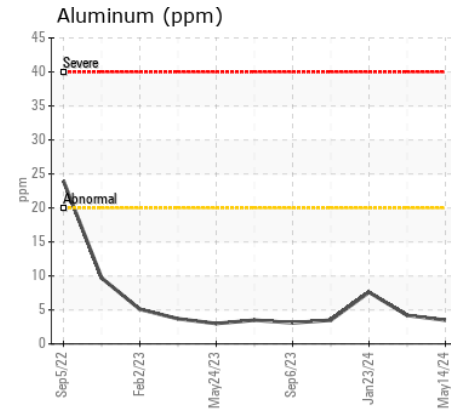
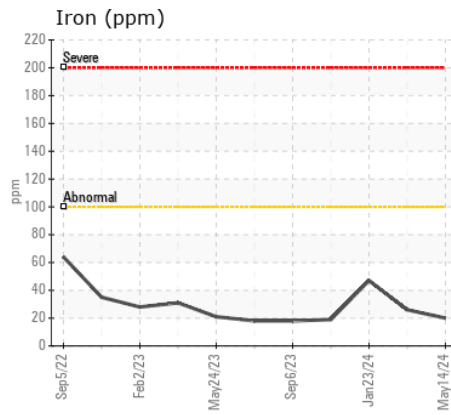
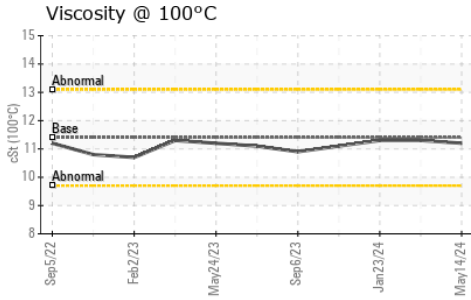
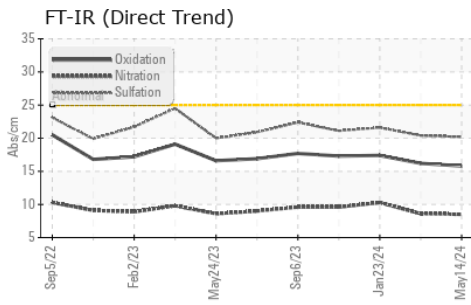
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	5	11
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>0.4</b>	0.5	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.5</b>	8.6	10.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	20.4	21.6
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)	1	<b>7</b>	5	6
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	1	<b>62</b>	65	61
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	10	<b>992</b>	985	977
Calcium	ppm	ASTM D5185(m)	2942	<b>1106</b>	1094	1089
Phosphorus	ppm	ASTM D5185(m)	1102	<b>1006</b>	1032	1012
Zinc	ppm	ASTM D5185(m)	1351	<b>1219</b>	1208	1210
Sulfur	ppm	ASTM D5185(m)	3903	<b>2471</b>	2662	2527
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.8</b>	16.2	17.4
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	<b>11.2</b>	11.3	11.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0915458  
**Lab Number** : 02640146  
**Unique Number** : 5789308  
**Test Package** : MOB 1

**Received** : 06 Jun 2024  
**Tested** : 06 Jun 2024  
**Diagnosed** : 06 Jun 2024 - Wes Davis

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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.