



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**51939**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SAE 10W30 (--- 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>WC0935039</b>	WC0915514	WC0892032
Sample Date		Client Info		<b>19 May 2024</b>	22 Mar 2024	08 Jan 2024
Machine Age	mls	Client Info		<b>372104</b>	337675	493365
Oil Age	mls	Client Info		<b>34429</b>	31815	0
Filter Age	mls	Client Info		<b>34429</b>	31815	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>45</b>	23	25
Chromium	ppm	ASTM D5185(m)	>20	<b>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	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	3	4
Lead	ppm	ASTM D5185(m)	>40	<b>3</b>	2	2
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

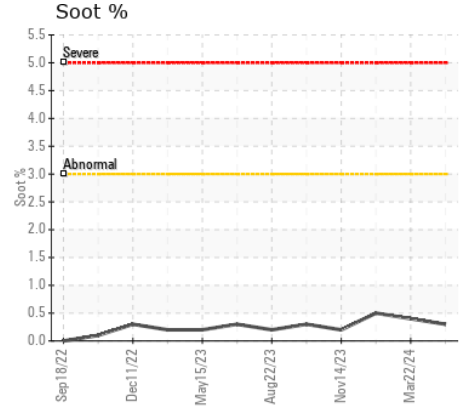
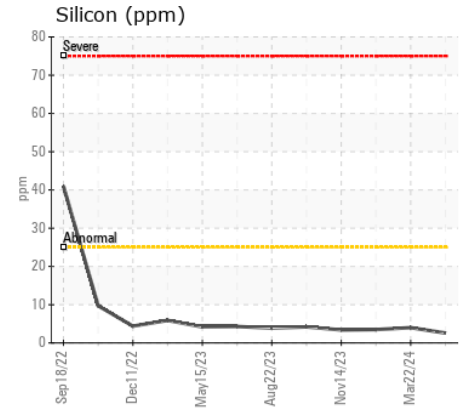
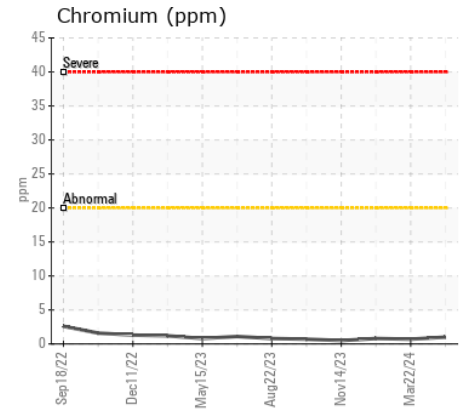
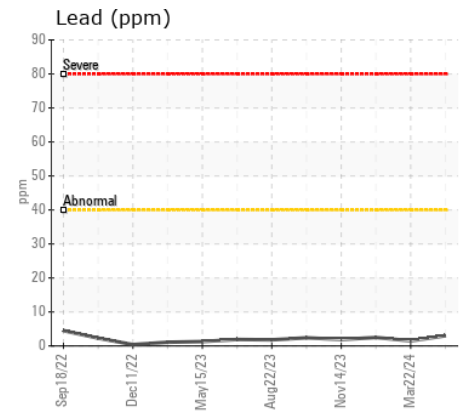
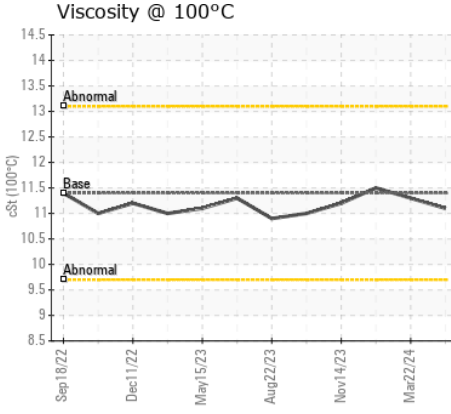
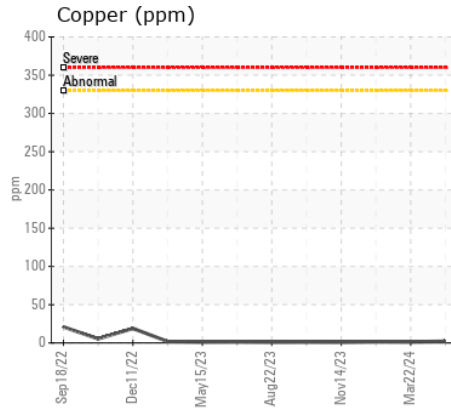
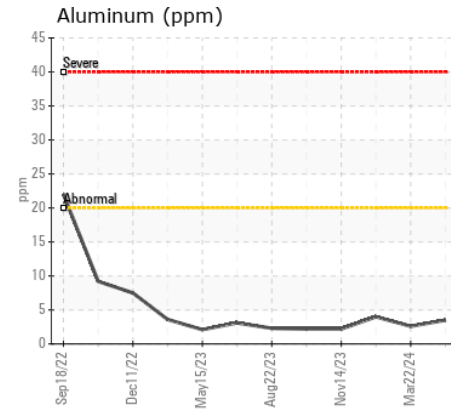
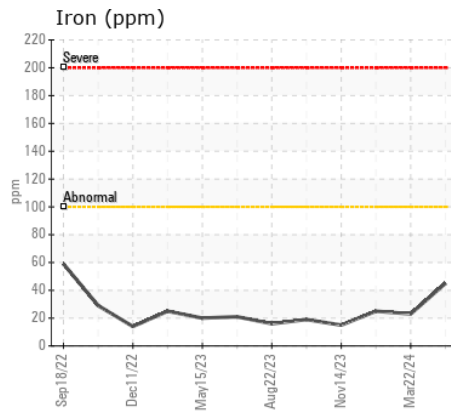
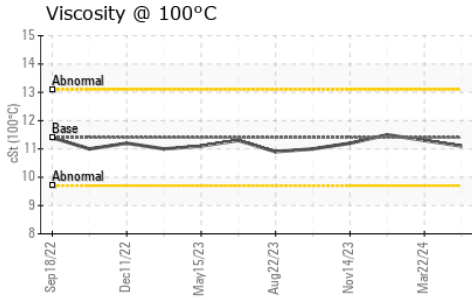
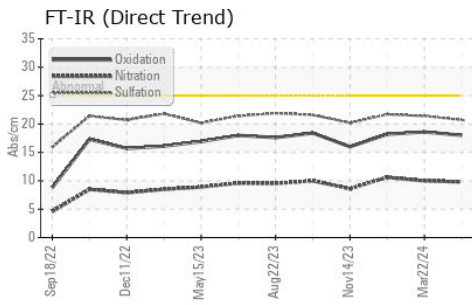
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	2	5
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>0.3</b>	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.8</b>	10.0	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.7</b>	21.4	21.7
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>	2	1
Boron	ppm	ASTM D5185(m)	1	<b>7</b>	4	5
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	1	<b>63</b>	63	61
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	10	<b>1000</b>	1022	989
Calcium	ppm	ASTM D5185(m)	2942	<b>1103</b>	1091	1100
Phosphorus	ppm	ASTM D5185(m)	1102	<b>988</b>	1013	1019
Zinc	ppm	ASTM D5185(m)	1351	<b>1226</b>	1279	1229
Sulfur	ppm	ASTM D5185(m)	3903	<b>2309</b>	2332	2498
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.0</b>	18.6	18.2
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	<b>11.1</b>	11.3	11.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0935039 **Received** : 06 Jun 2024  
**Lab Number** : 02640077 **Tested** : 06 Jun 2024  
**Unique Number** : 5789239 **Diagnosed** : 06 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

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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.