



**POWER SYSTEMS**  
**SYSTÈMES DE PUISSANCE**

OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

[6100298921]

Machine Id

U218161L

Component

Diesel Engine

Fluid

PETRO CANADA DURON SAE 15W40 (--- GAL)

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WA0021465</b>	WA0020193	WA0018321
Sample Date		Client Info		<b>18 Jun 2024</b>	06 Jul 2023	06 Jul 2022
Machine Age	hrs	Client Info		<b>450</b>	437	333
Oil Age	hrs	Client Info		<b>0</b>	60	10
Filter Age	hrs	Client Info		<b>0</b>	60	10
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**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>250	<b>2</b>	4	1
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>35	<b>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185(m)	>100	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>60	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
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**

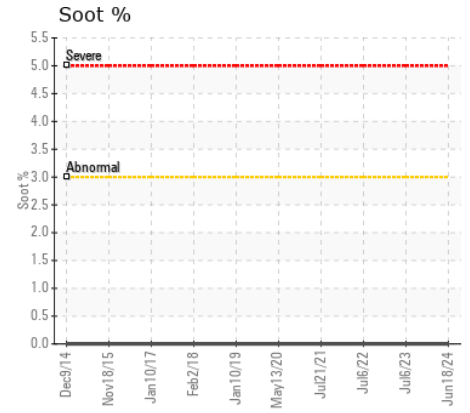
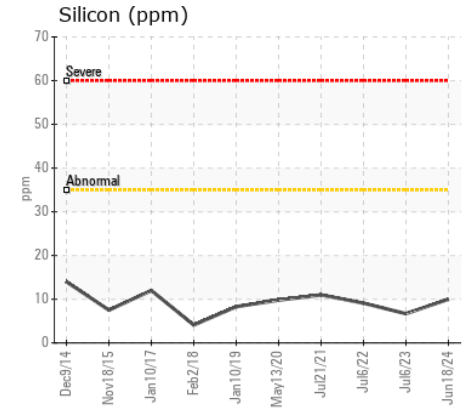
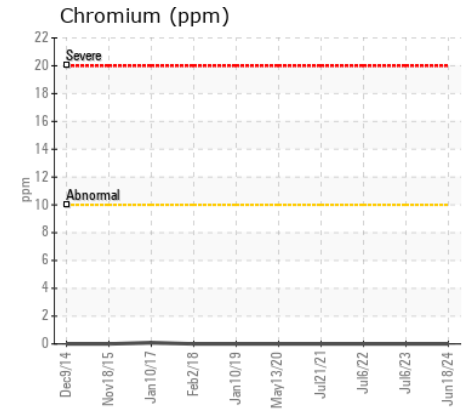
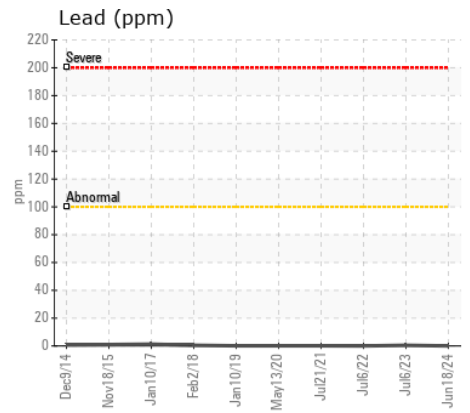
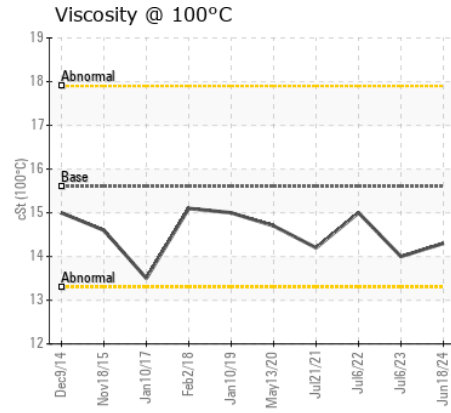
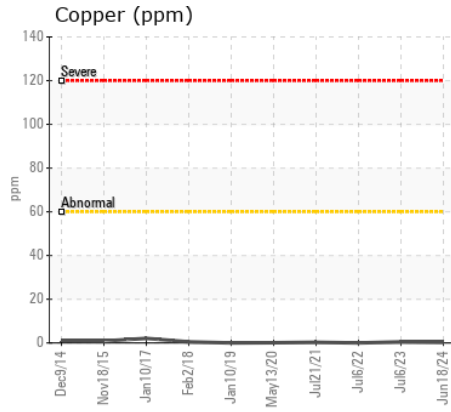
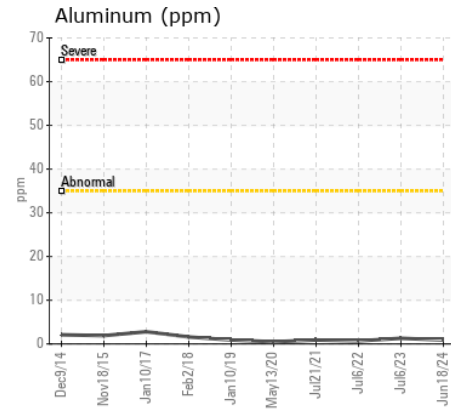
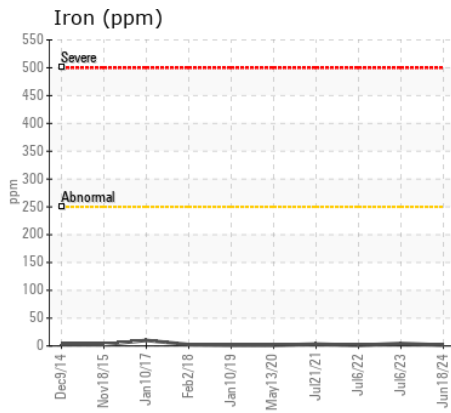
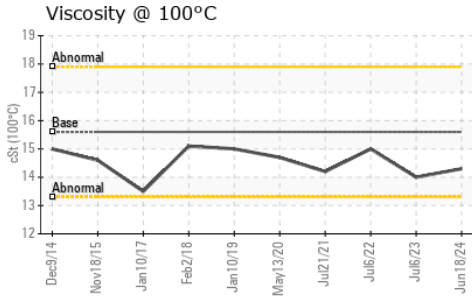
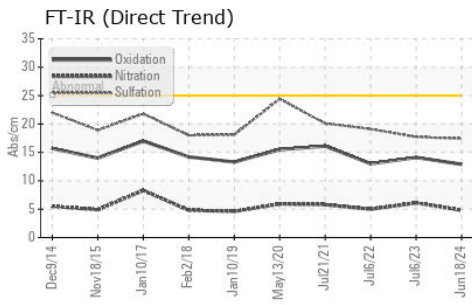
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>10</b>	7	9
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	4	<1
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</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.8</b>	6.1	5.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.4</b>	17.7	19.1
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>5</b>	4	14
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	57	53
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>935</b>	962	869
Calcium	ppm	ASTM D5185(m)	1070	<b>1020</b>	1049	1108
Phosphorus	ppm	ASTM D5185(m)	1150	<b>962</b>	1038	998
Zinc	ppm	ASTM D5185(m)	1270	<b>1156</b>	1170	1169
Sulfur	ppm	ASTM D5185(m)	2060	<b>2541</b>	2520	2715
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.9</b>	14.1	13.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.3</b>	14.0	15.0



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0021465  
**Lab Number** : 02644128  
**Unique Number** : 5801667  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**Received** : 26 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 26 Jun 2024 - Wes Davis

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.

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