



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

Machine Id  
**1521**  
 Component  
**Rear Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (24 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0081947</b>	PC0076642	PC0031704
Sample Date		Client Info		<b>13 May 2024</b>	23 Nov 2023	28 Aug 2023
Machine Age	kms	Client Info		<b>569647</b>	542920	529286
Oil Age	kms	Client Info		<b>13689</b>	13634	14991
Filter Age	kms	Client Info		<b>13689</b>	13634	14991
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>26</b>	26	14
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	6	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	2	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

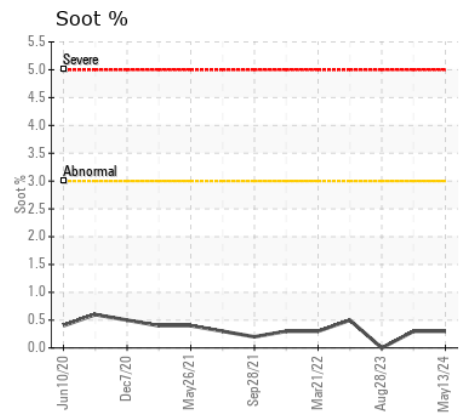
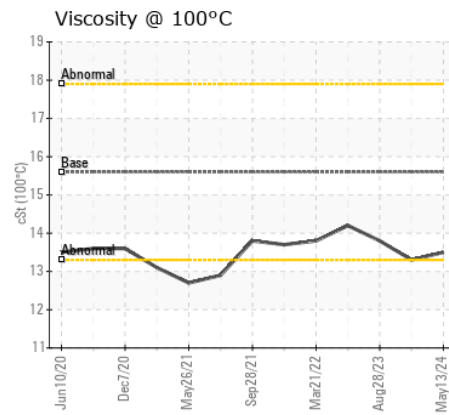
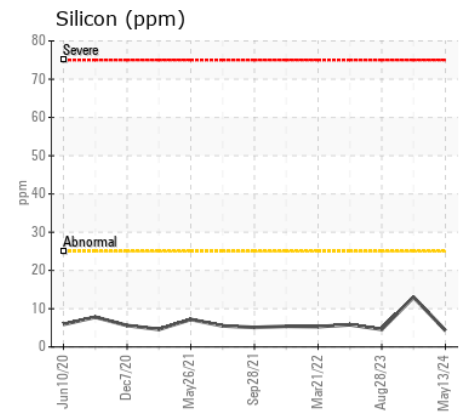
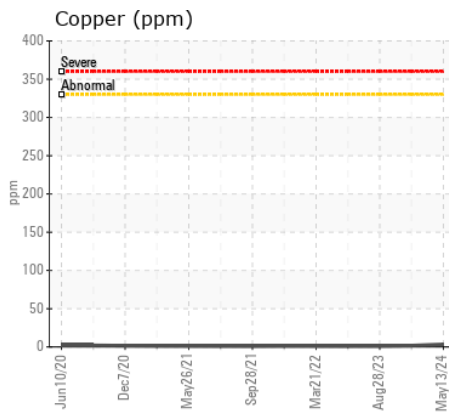
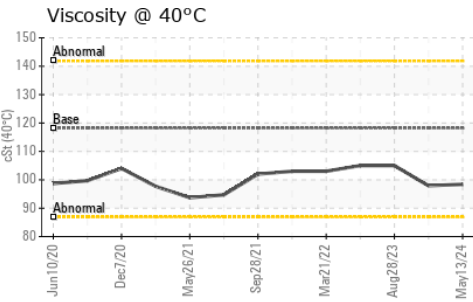
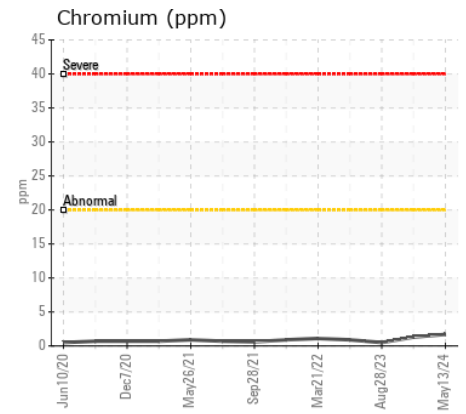
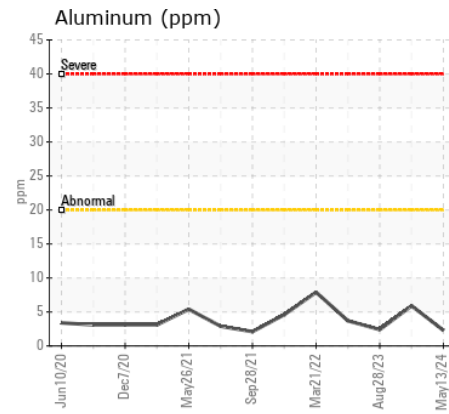
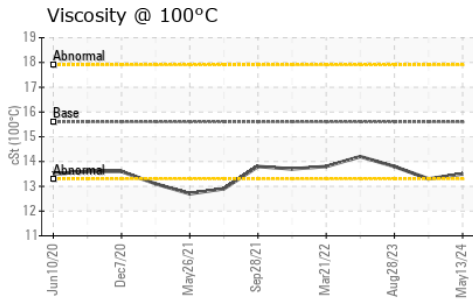
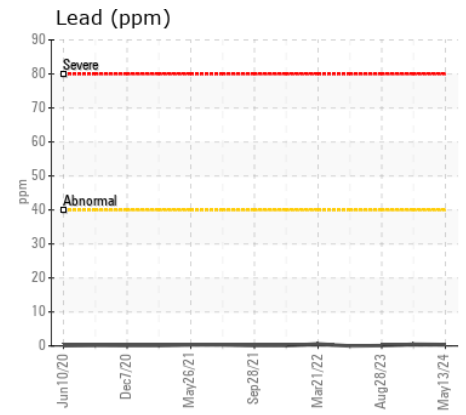
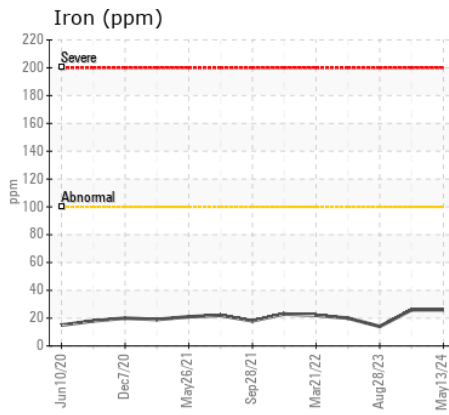
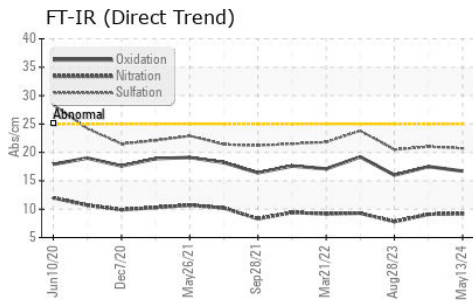
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	13	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	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>0.3</b>	0.3	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	9.1	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.7</b>	21.0	20.5
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>7</b>	7	6
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	4	11
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	62	57
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>999</b>	1005	916
Calcium	ppm	ASTM D5185(m)	1070	<b>1127</b>	1148	1306
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1019</b>	1044	1110
Zinc	ppm	ASTM D5185(m)	1270	<b>1234</b>	1281	1277
Sulfur	ppm	ASTM D5185(m)	2060	<b>2458</b>	2563	2652
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.7</b>	17.5	16.0
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>98.4</b>	97.9	105
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.5</b>	13.3	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>137</b>	134	131



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0081947 **Received** : 29 May 2024  
**Lab Number** : 02638326 **Tested** : 29 May 2024  
**Unique Number** : 5787488 **Diagnosed** : 29 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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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.