



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

Machine Id  
**3**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0111259</b>	PCA0111347	---
Sample Date		Client Info		<b>19 Jun 2024</b>	10 Apr 2024	---
Machine Age	mls	Client Info		<b>397003</b>	375044	---
Oil Age	mls	Client Info		<b>20000</b>	20000	---
Filter Age	mls	Client Info		<b>10000</b>	10000	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>16</b>	21	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>40	<b>2</b>	3	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

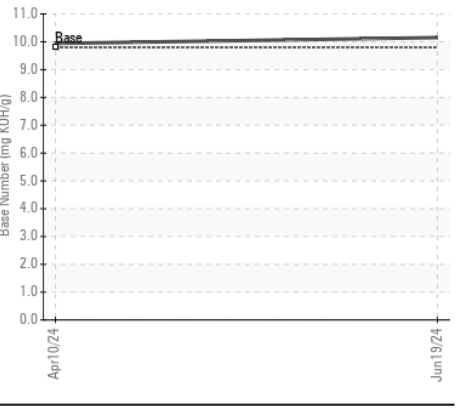
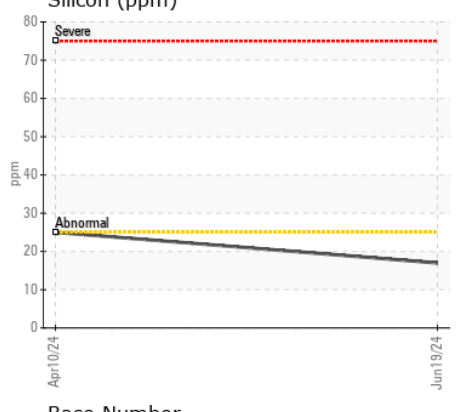
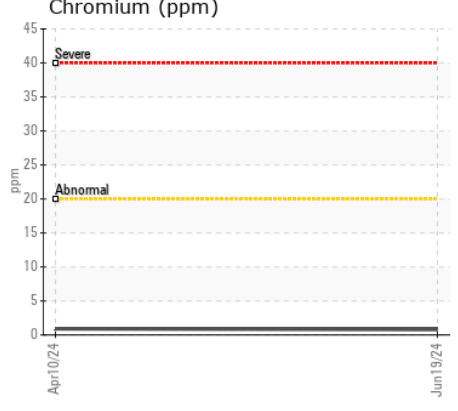
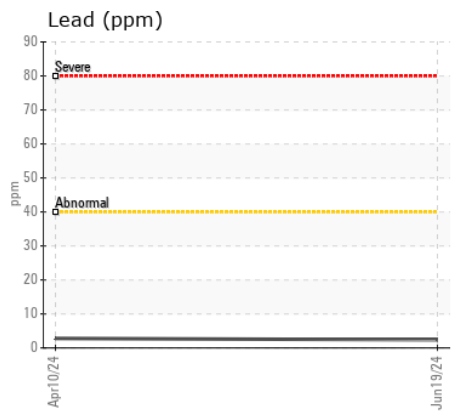
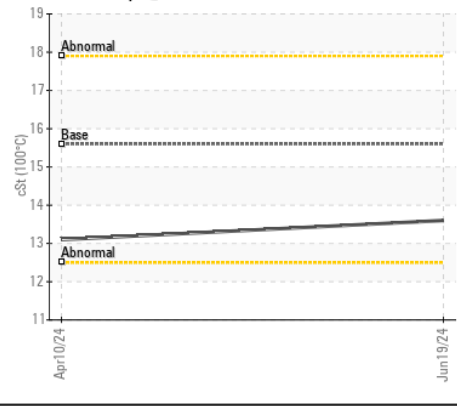
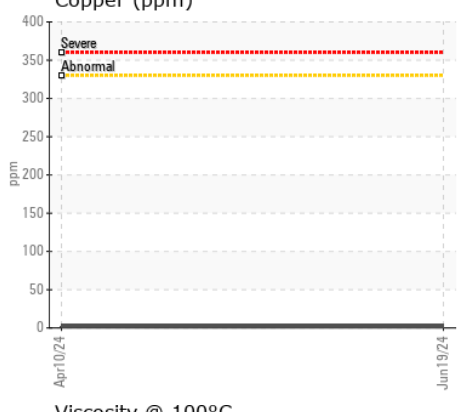
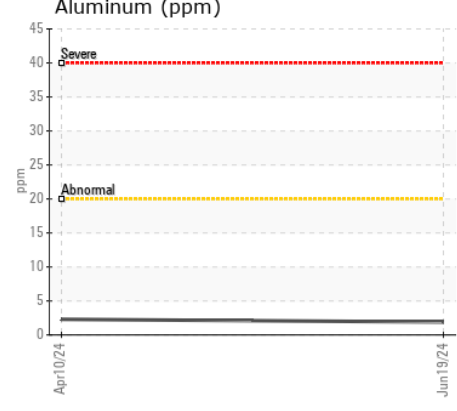
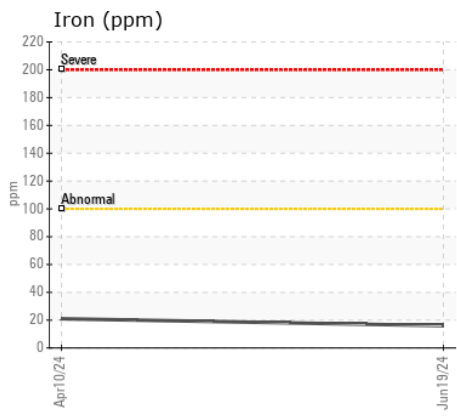
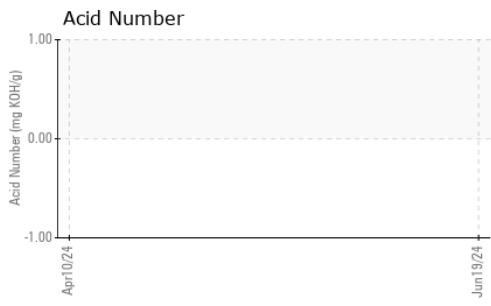
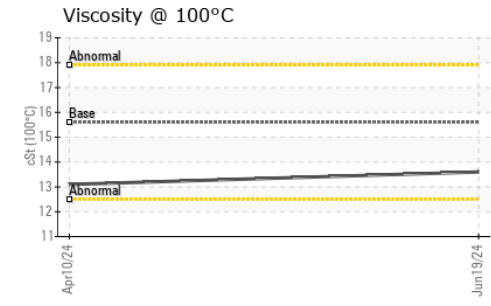
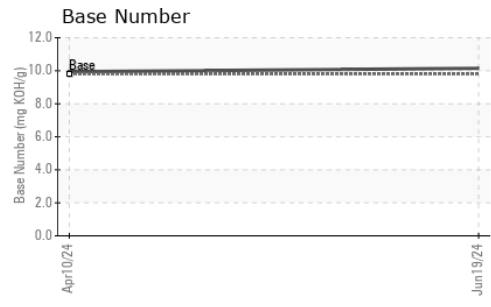
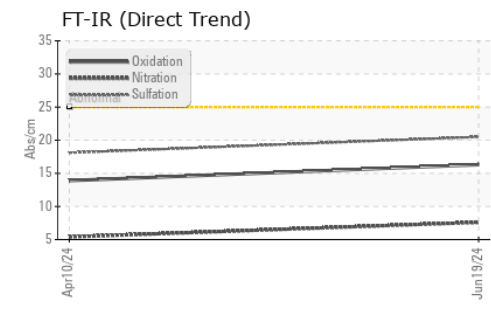
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>17</b>	▲ 25	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.6</b>	5.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.5</b>	18.1	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>15</b>	31	---
Boron	ppm	ASTM D5185m		<b>0</b>	5	---
Barium	ppm	ASTM D5185m		<b>0</b>	2	---
Molybdenum	ppm	ASTM D5185m		<b>63</b>	63	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m		<b>1049</b>	877	---
Calcium	ppm	ASTM D5185m		<b>1211</b>	1102	---
Phosphorus	ppm	ASTM D5185m		<b>1111</b>	990	---
Zinc	ppm	ASTM D5185m		<b>1331</b>	1168	---
Sulfur	ppm	ASTM D5185m		<b>3686</b>	3453	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.3</b>	13.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>10.15</b>	9.94	---
Visc @ 100°C	cSt	ASTM D445	15.6	<b>13.6</b>	13.1	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111259 **Received** : 25 Jun 2024  
**Lab Number** : 06220429 **Tested** : 27 Jun 2024  
**Unique Number** : 11098626 **Diagnosed** : 27 Jun 2024 - Angela Borella  
**Test Package** : MOB 2 ( Additional Tests: TAN Man )

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To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)