



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

Machine Id  
**042**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON UHP 10W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DE0000490</b>	DE0000502	DE0000519
Sample Date		Client Info		<b>15 May 2024</b>	20 Dec 2023	22 Aug 2023
Machine Age	mls	Client Info		<b>138515</b>	122829	105013
Oil Age	mls	Client Info		<b>138515</b>	17798	14751
Filter Age	mls	Client Info		<b>138515</b>	17798	14751
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 D5185m	>100	<b>31</b>	23	20
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	4	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

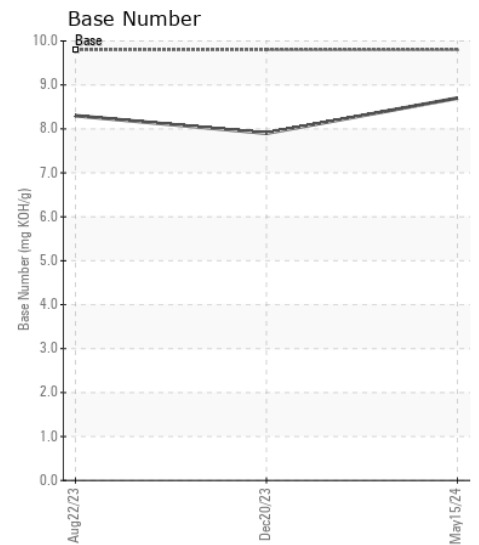
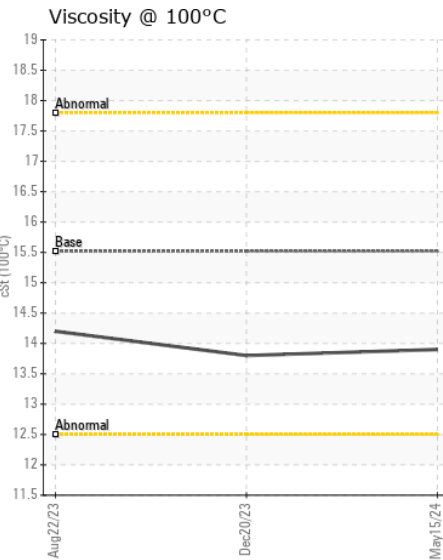
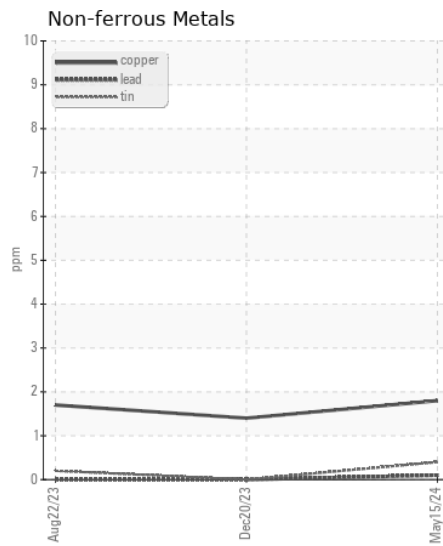
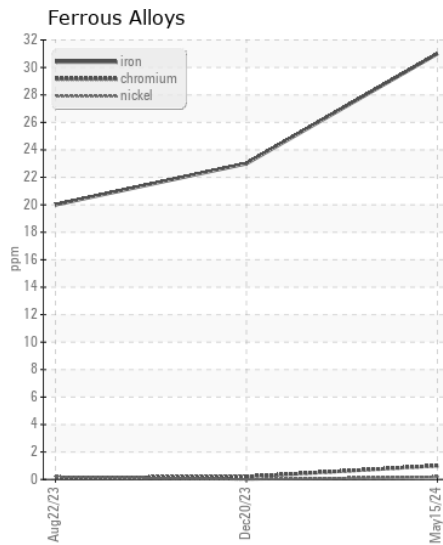
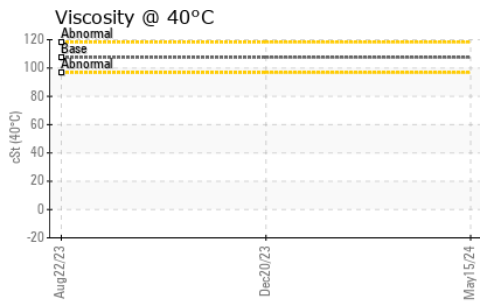
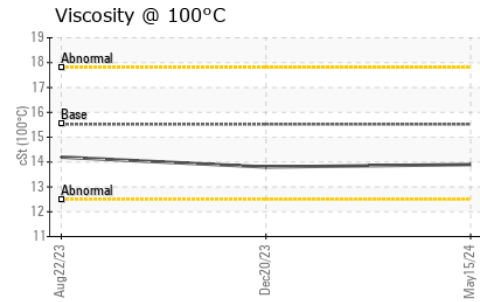
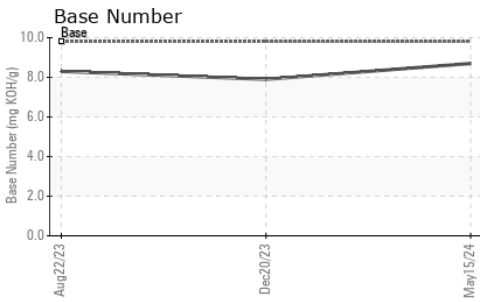
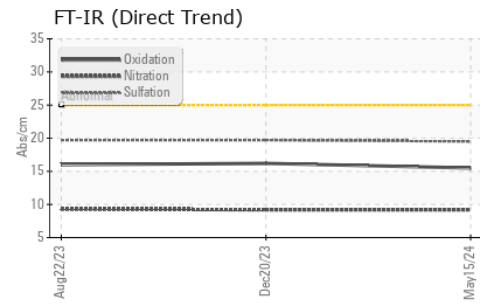
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>13</b>	10	5
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	8	9
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>0.7</b>	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.2</b>	9.2	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.5</b>	19.7	19.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	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>2</b>	0	0
Boron	ppm	ASTM D5185m	2	<b>3</b>	1	0
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	2
Molybdenum	ppm	ASTM D5185m	60	<b>66</b>	63	60
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	1010	<b>1044</b>	1028	916
Calcium	ppm	ASTM D5185m	1070	<b>1161</b>	1137	1056
Phosphorus	ppm	ASTM D5185m	1150	<b>1159</b>	1054	930
Zinc	ppm	ASTM D5185m	1270	<b>1355</b>	1289	1199
Sulfur	ppm	ASTM D5185m	2060	<b>3066</b>	3248	3734
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.5</b>	16.2	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.7</b>	7.9	8.3
Visc @ 100°C	cSt	ASTM D445	15.52	<b>13.9</b>	13.8	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DE0000490 **Received** : 28 Jun 2024  
**Lab Number** : 06224195 **Tested** : 01 Jul 2024  
**Unique Number** : 11102392 **Diagnosed** : 01 Jul 2024 - Angela Borella  
**Test Package** : FLEET ( Additional Tests: KV40 )

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)

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