



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

Machine Id

**036**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON UHP 10W40 (--- 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>DE0000577</b>	DE0000518	---
Sample Date		Client Info		<b>24 Apr 2024</b>	27 Sep 2023	---
Machine Age	mls	Client Info		<b>273035</b>	259140	---
Oil Age	mls	Client Info		<b>13895</b>	12546	---
Filter Age	mls	Client Info		<b>13895</b>	12546	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>20</b>	15	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	5	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

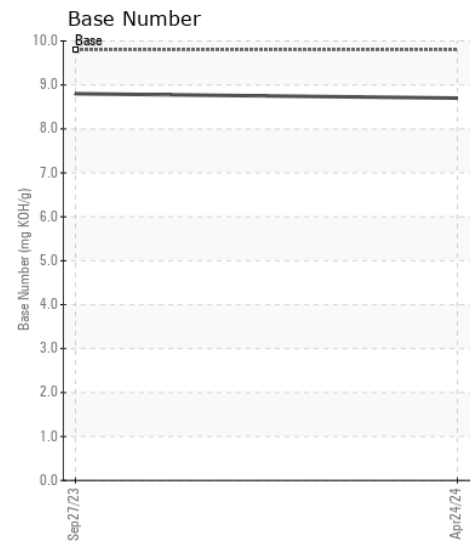
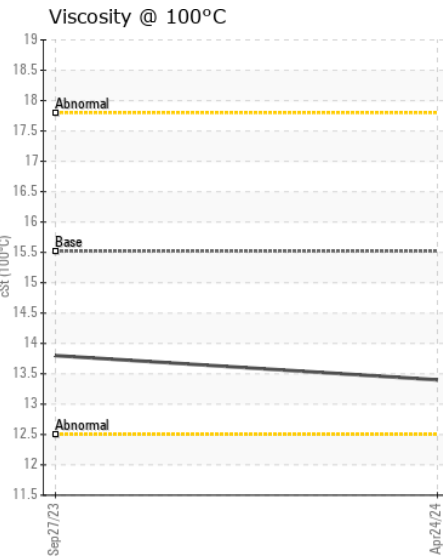
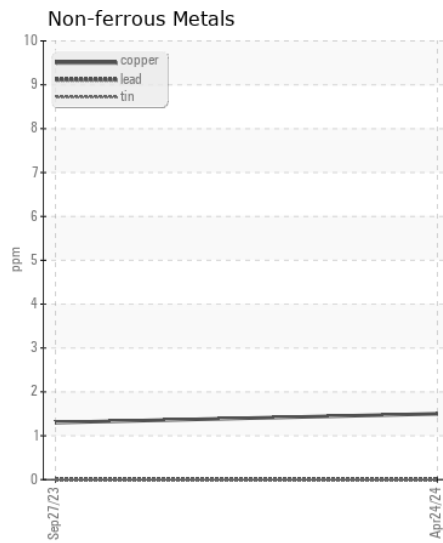
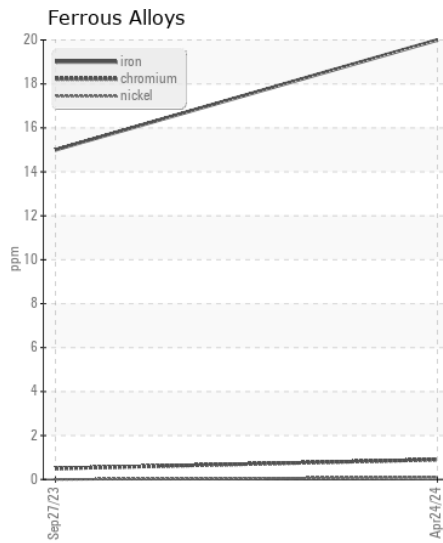
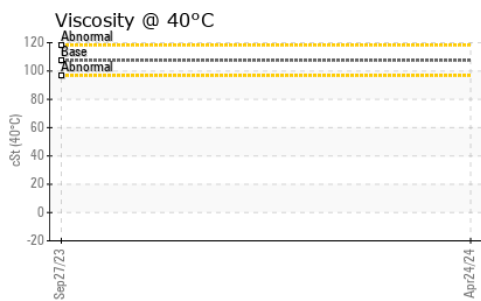
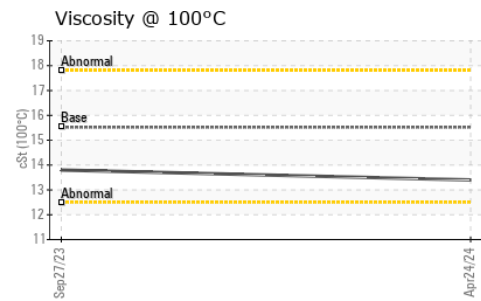
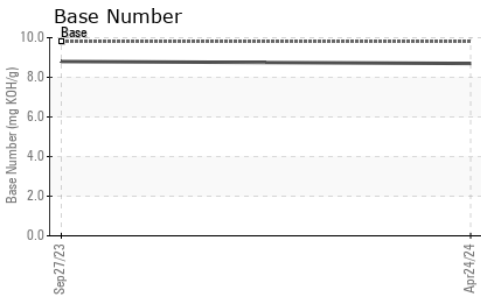
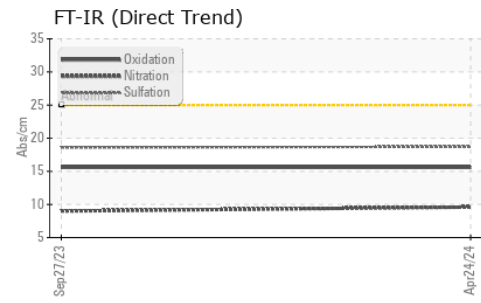
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	7	---
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>0.5</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.6</b>	9.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.7</b>	18.6	---
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>1</b>	<1	---
Boron	ppm	ASTM D5185m	2	<b>3</b>	2	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	60	<b>61</b>	58	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	1010	<b>1000</b>	893	---
Calcium	ppm	ASTM D5185m	1070	<b>1122</b>	965	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1191</b>	1016	---
Zinc	ppm	ASTM D5185m	1270	<b>1310</b>	1155	---
Sulfur	ppm	ASTM D5185m	2060	<b>3338</b>	2900	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.6</b>	15.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.7</b>	8.8	---
Visc @ 100°C	cSt	ASTM D445	15.52	<b>13.4</b>	13.8	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DE0000577 **Received** : 28 Jun 2024  
**Lab Number** : 06224183 **Tested** : 01 Jul 2024  
**Unique Number** : 11102380 **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)

**Iroquois Bar Corp.**  
 155 Commerce Drive  
 Lacakwana, NY  
 US 14218

Contact: Denver Persinger  
 dpersinger@iroquoisbar.com

T:  
 F: