



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

Machine Id

**055**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON UHP E6 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>DE0000504</b>	PC0032529	---
Sample Date		Client Info		<b>05 Feb 2024</b>	21 Jun 2023	---
Machine Age	mls	Client Info		<b>0</b>	79993	---
Oil Age	mls	Client Info		<b>28000</b>	13005	---
Filter Age	mls	Client Info		<b>28000</b>	13005	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>39</b>	21	---
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	2	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>26</b>	10	---
Lead	ppm	ASTM D5185m	>40	<b>4</b>	1	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	<1	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

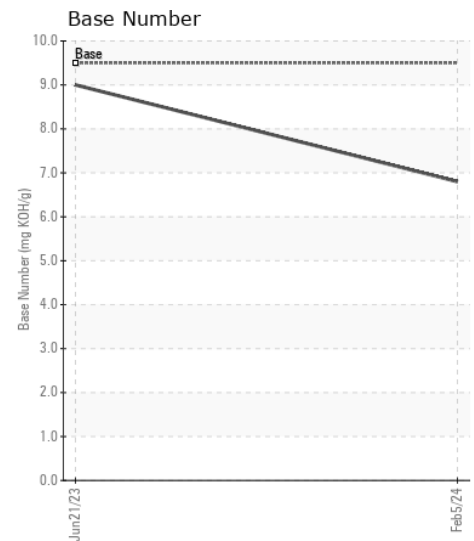
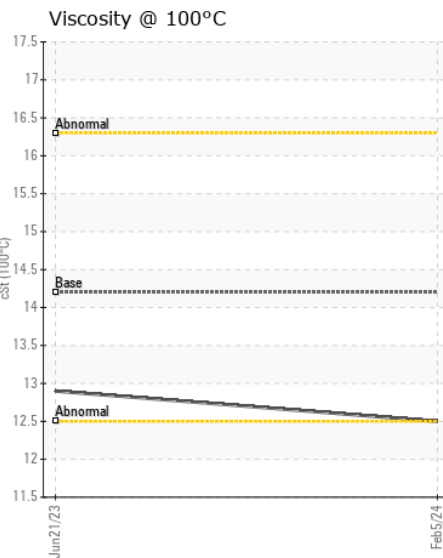
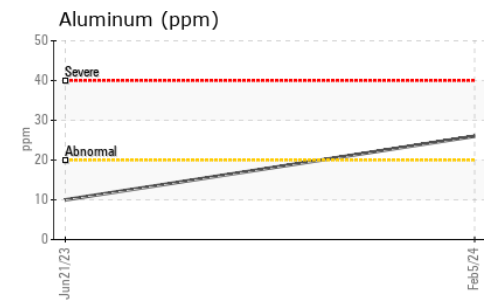
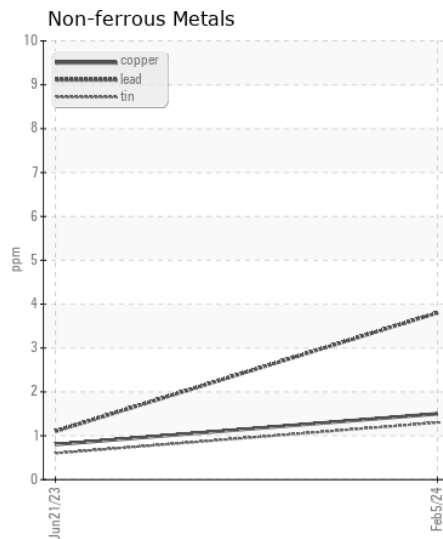
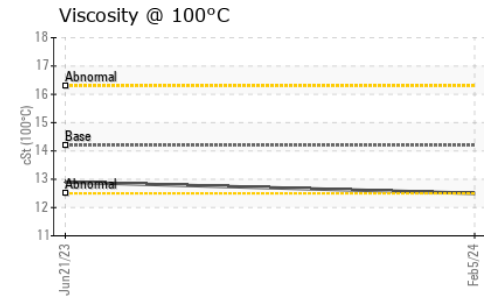
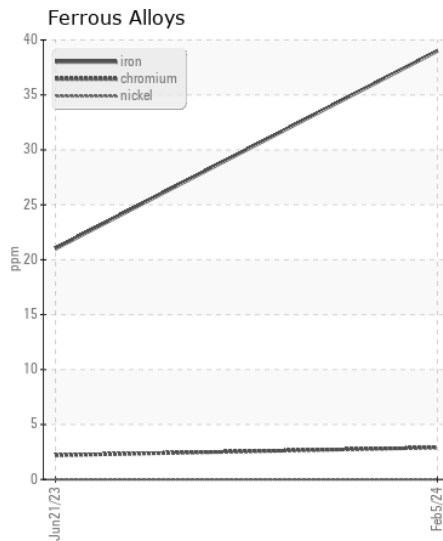
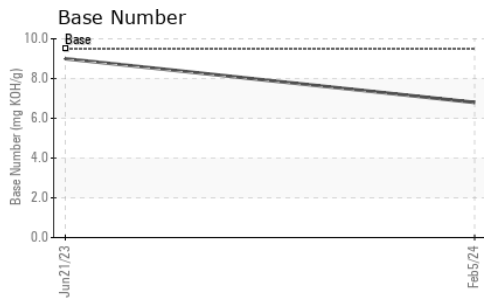
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>65</b>	17	---
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>1</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.6</b>	8.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.8</b>	19.5	---
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>2</b>	2	---
Boron	ppm	ASTM D5185m	0	<b>4</b>	5	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>62</b>	63	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	80	<b>967</b>	905	---
Calcium	ppm	ASTM D5185m	2400	<b>1060</b>	1116	---
Phosphorus	ppm	ASTM D5185m	750	<b>1066</b>	1038	---
Zinc	ppm	ASTM D5185m	840	<b>1276</b>	1264	---
Sulfur	ppm	ASTM D5185m	2130	<b>3473</b>	3541	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.0</b>	15.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	<b>6.8</b>	9.0	---
Visc @ 100°C	cSt	ASTM D445	14.2	<b>12.5</b>	12.9	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : DE0000504

**Lab Number** : 06124188

**Unique Number** : 10938339

**Test Package** : FLEET

**Received** : 20 Mar 2024

**Tested** : 21 Mar 2024

**Diagnosed** : 21 Mar 2024 - Wes Davis

**Iroquois Bar Corp.**

155 Commerce Drive

Lacakwana, NY

US 14218

Contact: Denver Persinger

dpersinger@iroquoisbar.com

T:

F:

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)