

Machine Id  
**LEITNER MINUTE MILE TOP**  
Component  
**Top Gearbox**  
Fluid  
**PETRO CANADA ENDURATEX EP 220 (60 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0072919</b>	PC0072928	---
Sample Date		Client Info		<b>15 May 2024</b>	03 May 2023	---
Machine Age	hrs	Client Info		<b>9935</b>	9655	---
Oil Age	hrs	Client Info		<b>1672</b>	1477	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>19</b>	18	---
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>0</b>	0	---
Lead	ppm	ASTM D5185(m)	>50	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>200	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

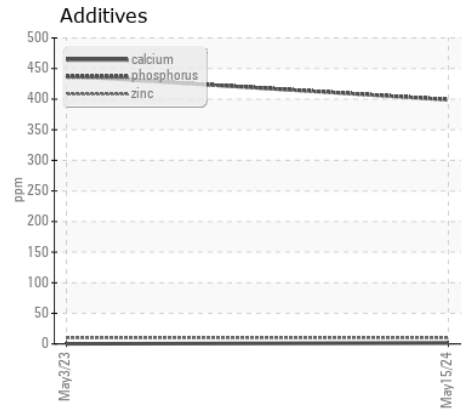
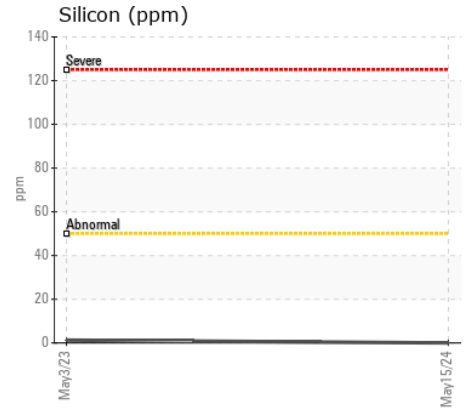
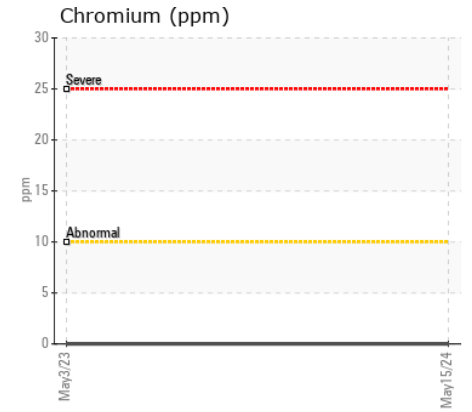
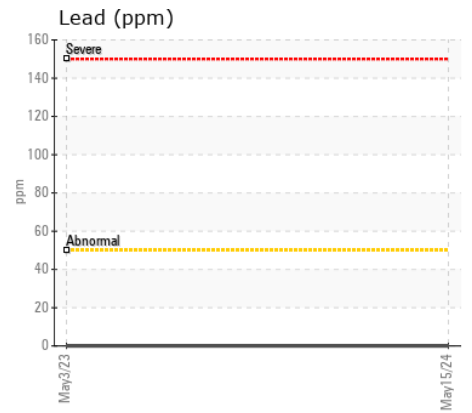
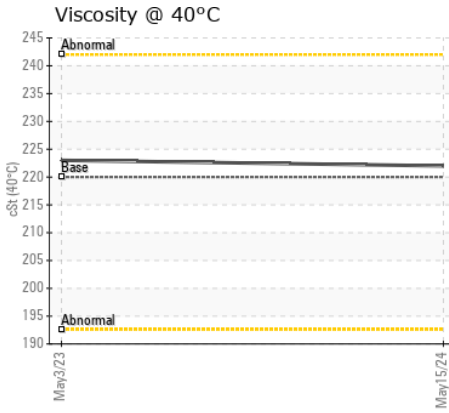
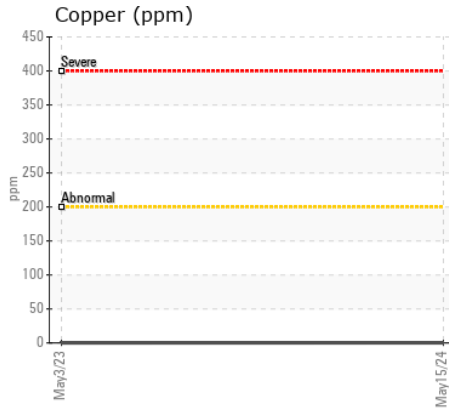
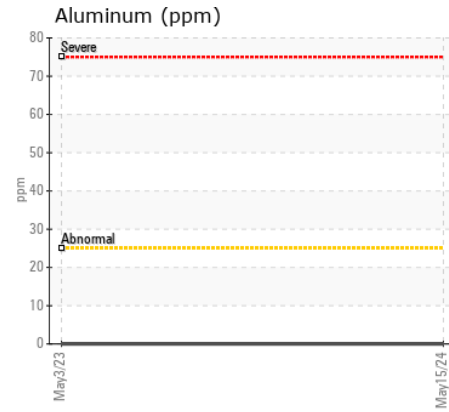
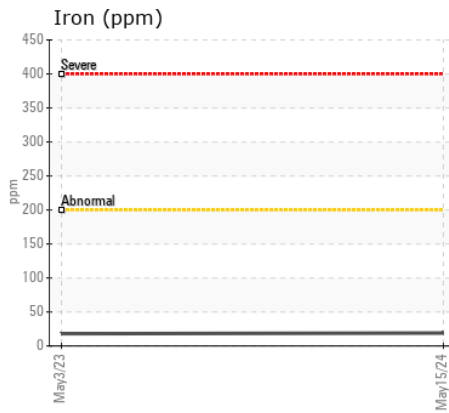
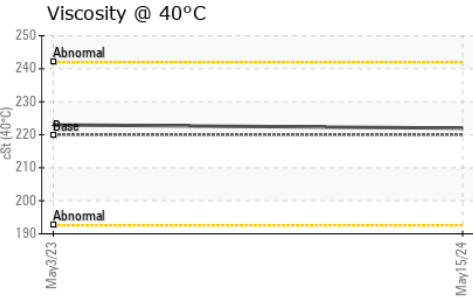
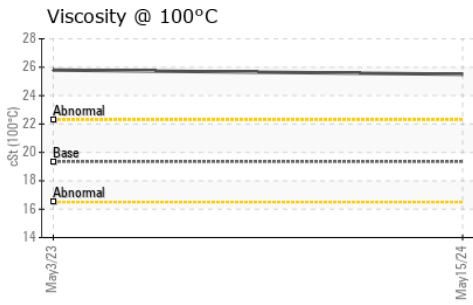
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	<b>0</b>	1	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>VLITE</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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	---
Boron	ppm	ASTM D5185(m)	60	<b>30</b>	29	---
Barium	ppm	ASTM D5185(m)	0	<b>8</b>	8	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	---
Calcium	ppm	ASTM D5185(m)	0	<b>2</b>	<1	---
Phosphorus	ppm	ASTM D5185(m)	270	<b>399</b>	438	---
Zinc	ppm	ASTM D5185(m)	0	<b>10</b>	10	---
Sulfur	ppm	ASTM D5185(m)	11200	<b>4660</b>	5078	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	<b>222</b>	223	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	<b>25.5</b>	25.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	99	<b>145</b>	147	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0072919 **Received** : 29 May 2024  
**Lab Number** : 02638687 **Tested** : 30 May 2024  
**Unique Number** : 5787849 **Diagnosed** : 30 May 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

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.

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