



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



Machine Id  
**CATERPILLAR 930K 2211602**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SAE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0088745</b>	PC0071085	---
Sample Date		Client Info		<b>10 Apr 2024</b>	12 Jan 2023	---
Machine Age	hrs	Client Info		<b>8620</b>	7756	---
Oil Age	hrs	Client Info		<b>500</b>	600	---
Filter Age	hrs	Client Info		<b>500</b>	600	---
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 D5185(m)	>100	<b>5</b>	8	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	1	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	2	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**CONTAMINATION**

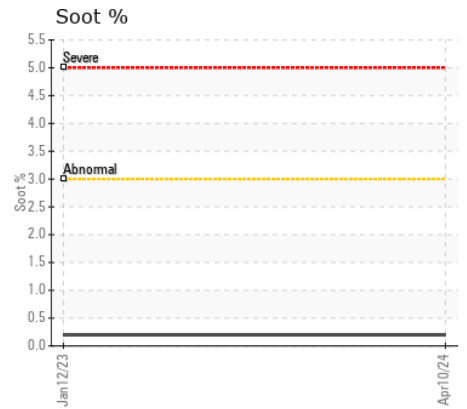
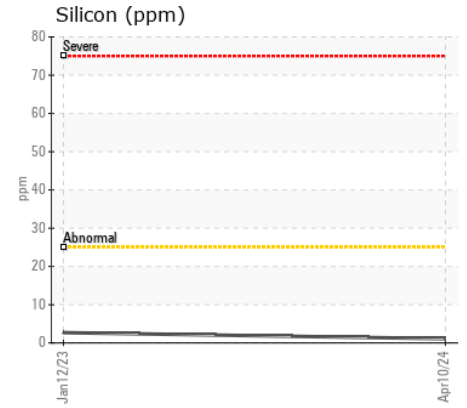
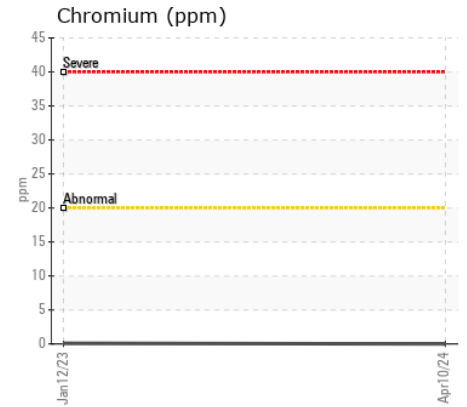
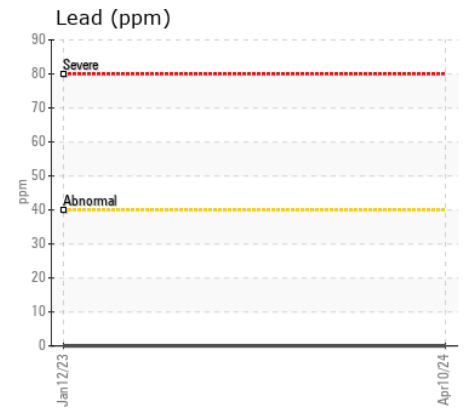
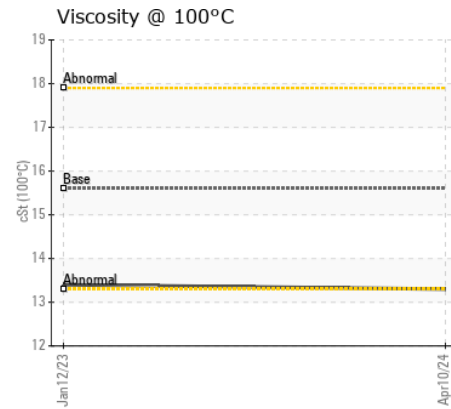
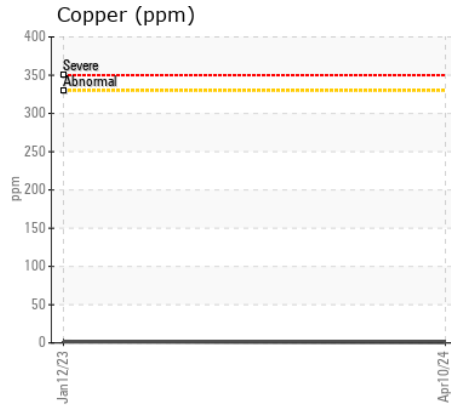
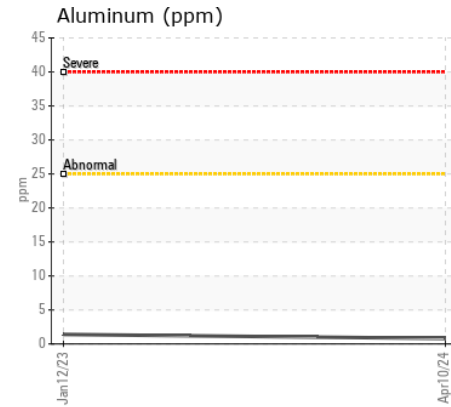
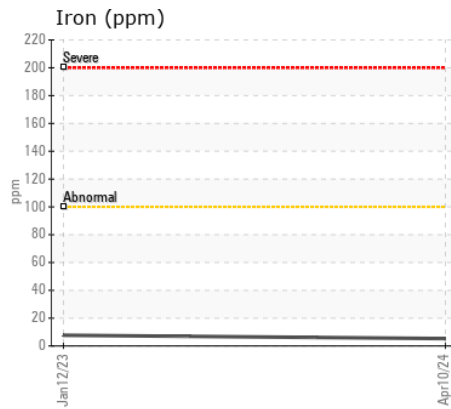
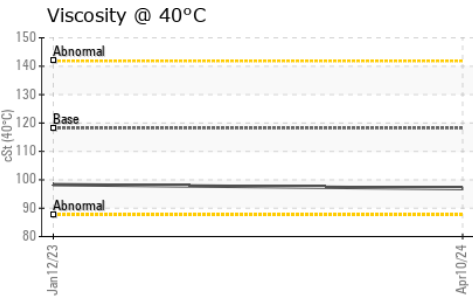
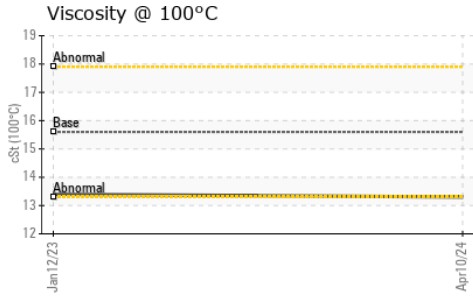
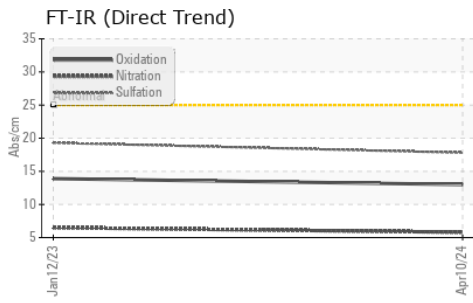
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>1</b>	3	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	---
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>0.2</b>	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.8</b>	6.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.8</b>	19.3	---
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>1</b>	1	---
Boron	ppm	ASTM D5185(m)	1	<b>3</b>	3	---
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>55</b>	60	---
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>920</b>	988	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1062</b>	1100	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>978</b>	1112	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1152</b>	1205	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2507</b>	2744	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.0</b>	13.9	---
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>96.9</b>	98.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.3</b>	13.4	---
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>136</b>	135	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0088745 **Received** : 19 Apr 2024  
**Lab Number** : 02630116 **Tested** : 19 Apr 2024  
**Unique Number** : 5763248 **Diagnosed** : 19 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, 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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