



**POWER SYSTEMS**  
**SYSTÈMES DE PUISSANCE**

**OIL ANALYSIS REPORT**

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

Area  
**[227963]**  
Machine Id  
**KOHLER CFIA**  
Component  
**Front Diesel Engine**  
Fluid  
**PETRO CANADA 15W40 (40 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WA0020865</b>	AP66223	---
Sample Date		Client Info		<b>03 Jan 2024</b>	29 Oct 2009	---
Machine Age	hrs	Client Info		<b>480</b>	740	---
Oil Age	hrs	Client Info		<b>50</b>	40	---
Filter Age	hrs	Client Info		<b>50</b>	40	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>200	<b>3</b>	40	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	2	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>30	<b>1</b>	1	---
Lead	ppm	ASTM D5185(m)	>30	<b>1</b>	5	---
Copper	ppm	ASTM D5185(m)	>30	<b>3</b>	3	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	5	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**CONTAMINATION**

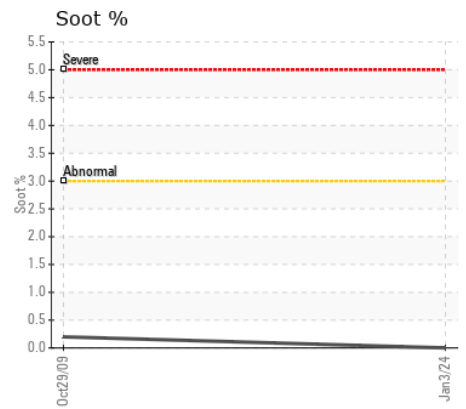
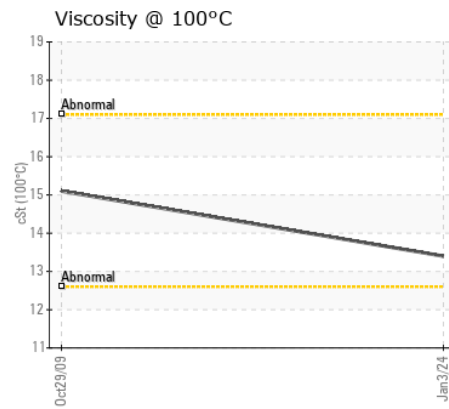
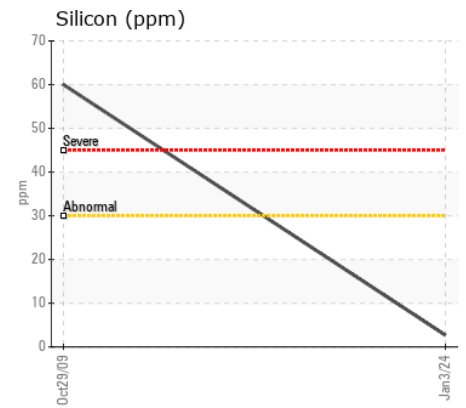
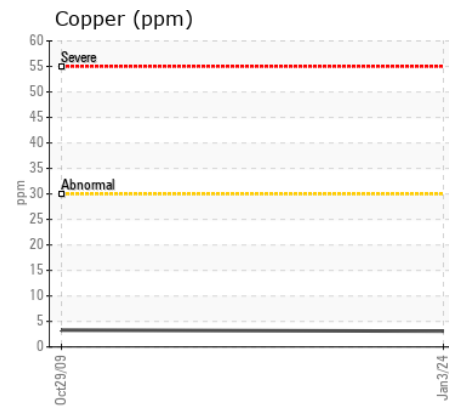
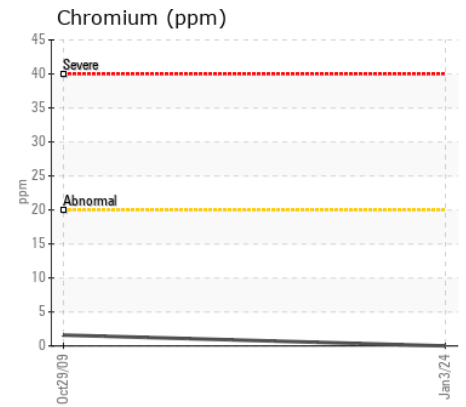
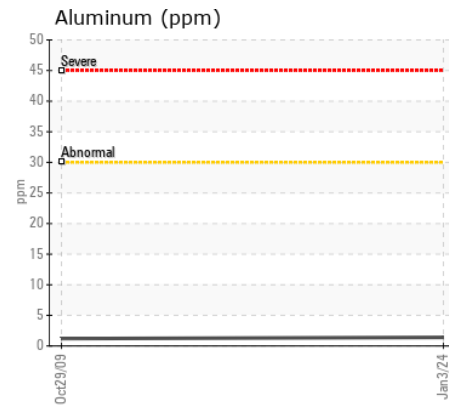
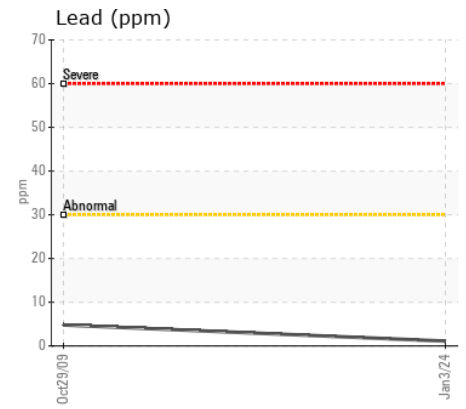
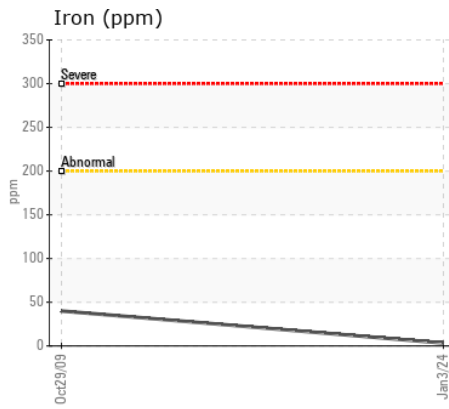
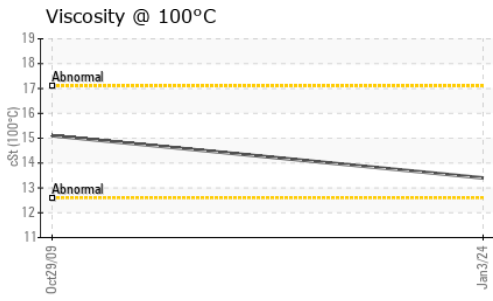
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>3</b>	▲ 60	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	---
Fuel		WC Method	>3.0	<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</b>	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.3</b>	5.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.1</b>	20.7	---
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>	4	---
Boron	ppm	ASTM D5185(m)		<b>7</b>	2	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)		<b>55</b>	<1	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)		<b>916</b>	8	---
Calcium	ppm	ASTM D5185(m)		<b>1081</b>	2535	---
Phosphorus	ppm	ASTM D5185(m)		<b>997</b>	921	---
Zinc	ppm	ASTM D5185(m)		<b>1141</b>	1110	---
Sulfur	ppm	ASTM D5185(m)		<b>2689</b>	5043	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.5</b>	10.9	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.4</b>	15.1	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0020865 **Received** : 09 Jan 2024  
**Lab Number** : 02607385 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 5708471 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.