



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



Area  
**KEMP QUARRIES / BCS - GRAVETTE [67226]**  
Machine Id  
**WL143**  
Component  
**Rear Differential**  
Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: Pm-1 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0069809</b>	PCA0084775	PCA0086320
Sample Date		Client Info		<b>18 Jan 2024</b>	07 Sep 2023	15 Jun 2023
Machine Age	hrs	Client Info		<b>39571</b>	39571	39015
Oil Age	hrs	Client Info		<b>39571</b>	38110	39015
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>37</b>	▲ 530	392
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>1</b>	6	5
Lead	ppm	ASTM D5185m	>13	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m	>103	<b>2</b>	19	18
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

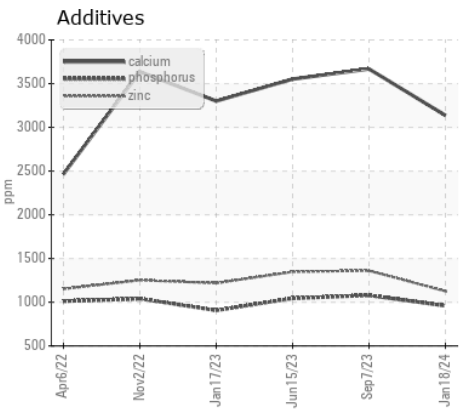
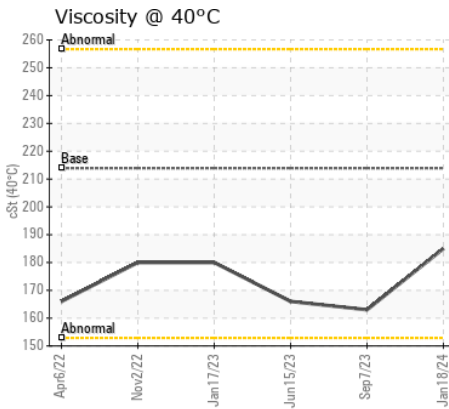
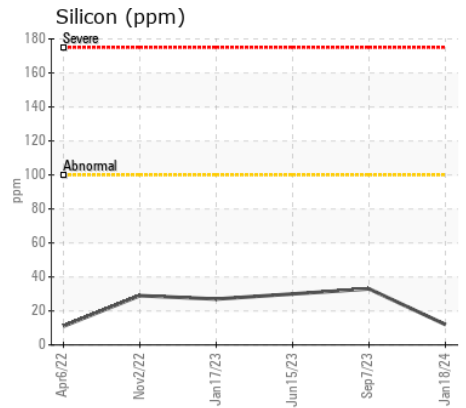
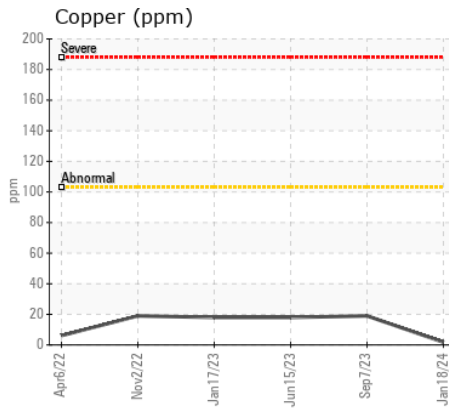
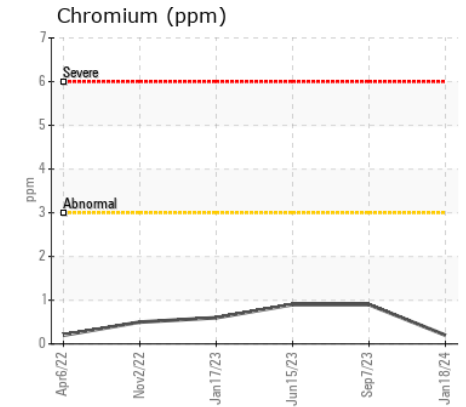
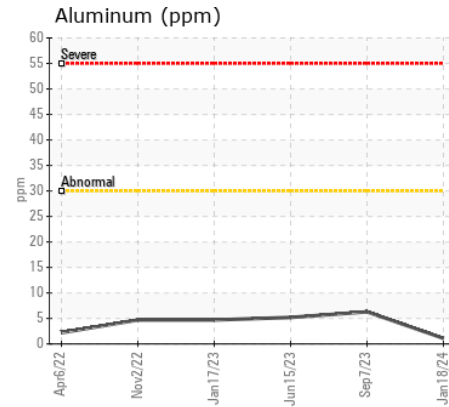
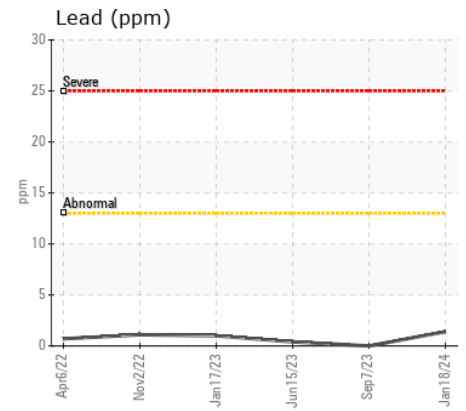
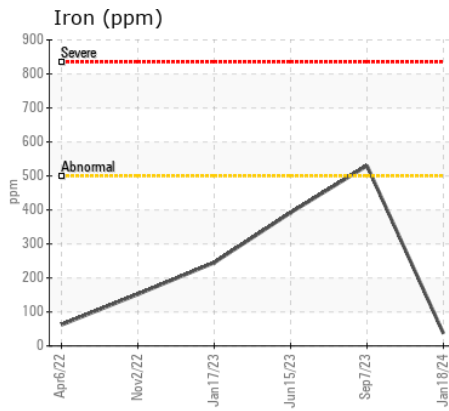
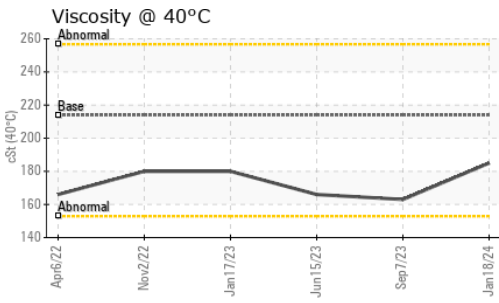
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>12</b>	33	30
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>1</b>	<1	0
Boron	ppm	ASTM D5185m	2	<b>&lt;1</b>	<1	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	0	1
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	4	3
Magnesium	ppm	ASTM D5185m	9	<b>18</b>	27	25
Calcium	ppm	ASTM D5185m	3114	<b>3137</b>	3668	3552
Phosphorus	ppm	ASTM D5185m	1099	<b>960</b>	1079	1044
Zinc	ppm	ASTM D5185m	1245	<b>1127</b>	1361	1348
Sulfur	ppm	ASTM D5185m	7086	<b>4299</b>	6492	6365
Visc @ 40°C	cSt	ASTM D445	213.9	<b>185</b>	163	166



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0069809 **Received** : 31 Jan 2024  
**Lab Number** : 06076453 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10858544 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1

**Kemp Quarries - Benton County Stone - Gravette**  
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 Sulphur Springs, AR  
 US 72768  
 Contact:  
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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)