

Area  
**KEMP QUARRIES / SELIGMAN [68983]**

Machine Id  
**WL114**

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-2 sampled fluid )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0126286</b>	PCA0070600	---
Sample Date		Client Info		<b>11 Jun 2024</b>	20 Nov 2023	---
Machine Age	hrs	Client Info		<b>1491</b>	953	---
Oil Age	hrs	Client Info		<b>1491</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>MARGINAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>112</b>	46	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	<1	---
Lead	ppm	ASTM D5185m	>25	<b>1</b>	<1	---
Copper	ppm	ASTM D5185m	>100	<b>31</b>	13	---
Tin	ppm	ASTM D5185m	>10	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

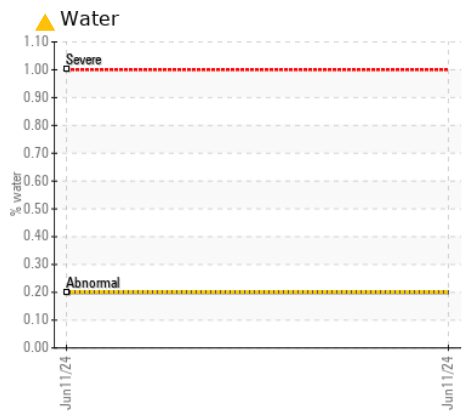
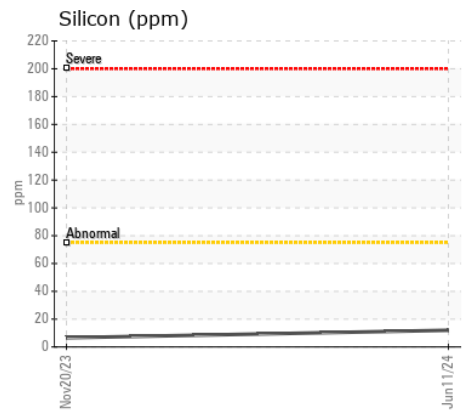
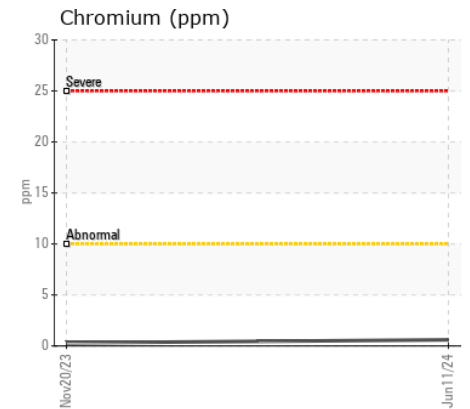
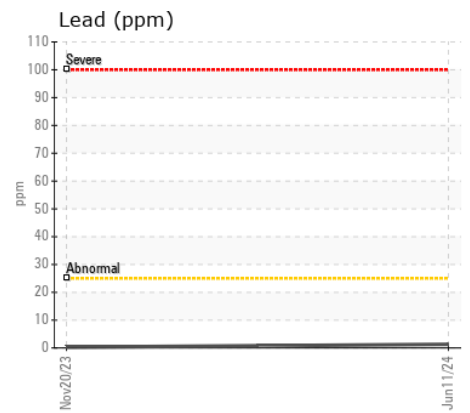
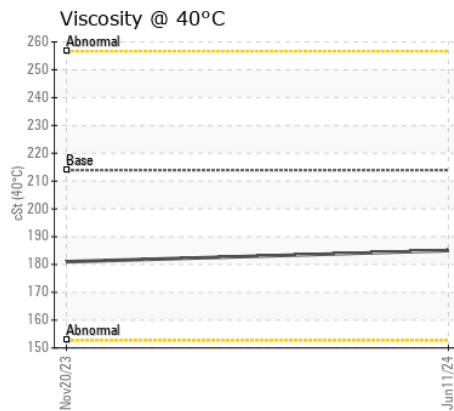
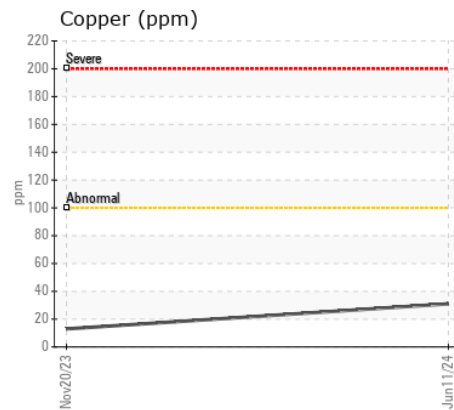
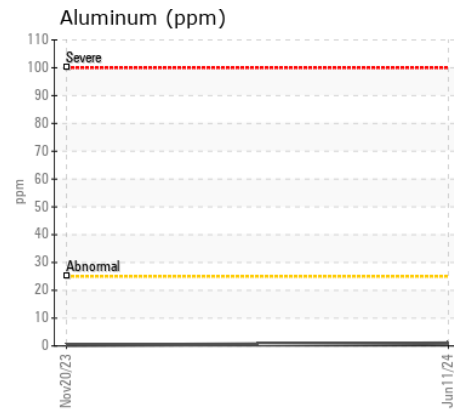
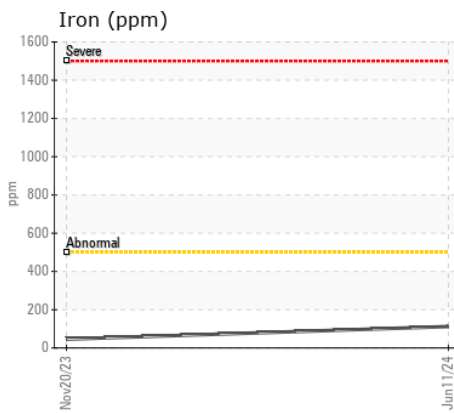
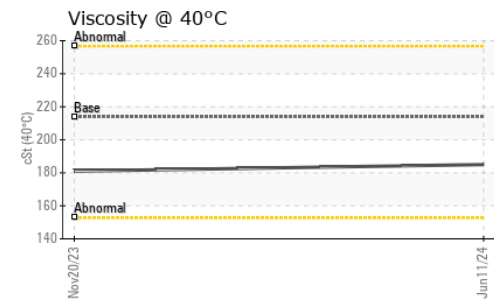
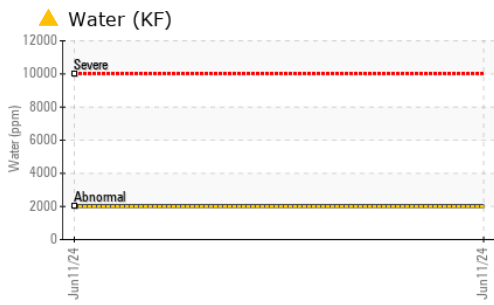
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>12</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	0	---
Water	%	ASTM D6304	>.2	<b>▲ 0.200</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 2000</b>	---	---
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	>.2	<b>0.2%</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>5</b>	3	---
Boron	ppm	ASTM D5185m	2	<b>10</b>	8	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m	0	<b>2</b>	<1	---
Magnesium	ppm	ASTM D5185m	9	<b>17</b>	13	---
Calcium	ppm	ASTM D5185m	3114	<b>2879</b>	2535	---
Phosphorus	ppm	ASTM D5185m	1099	<b>1141</b>	1022	---
Zinc	ppm	ASTM D5185m	1245	<b>1245</b>	1108	---
Sulfur	ppm	ASTM D5185m	7086	<b>7241</b>	5433	---
Visc @ 40°C	cSt	ASTM D445	213.9	<b>185</b>	181	---



Certificate L2367

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

Sample No. : PCA0126286

Lab Number : 06216391

Unique Number : 11089255

Test Package : MOB 1 ( Additional Tests: KF )

Received : 20 Jun 2024

Tested : 21 Jun 2024

Diagnosed : 23 Jun 2024 - Don Baldrige

Kemp Quarries - BCS - Seligman

8261 Farm rd 2295

Seligman, MO

US 65745

Contact: TECHNICIAN ACCOUNT

catherine.anastasio@wearcheck.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)