



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



Area  
**KEMP QUARRIES / NEOSHO [69885]**

Machine Id  
**WL111**

Component  
**Transmission (Manual)**

Fluid  
**PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: PM-2 changed fluid and filters )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0108724</b>	PCA0086528	PCA0084710
Sample Date		Client Info		<b>21 May 2024</b>	06 Feb 2024	10 Oct 2023
Machine Age	hrs	Client Info		<b>30720</b>	30222	29750
Oil Age	hrs	Client Info		<b>30720</b>	30222	29750
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>8</b>	4	6
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	2
Lead	ppm	ASTM D5185m	>45	<b>1</b>	0	1
Copper	ppm	ASTM D5185m	>225	<b>81</b>	82	146
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

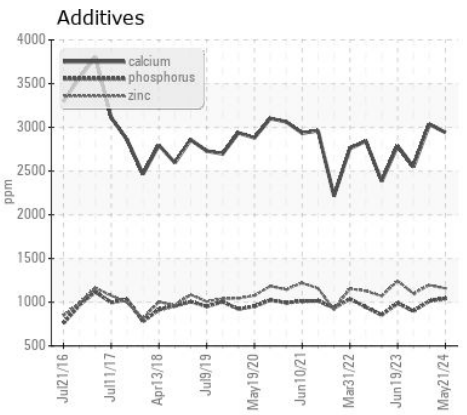
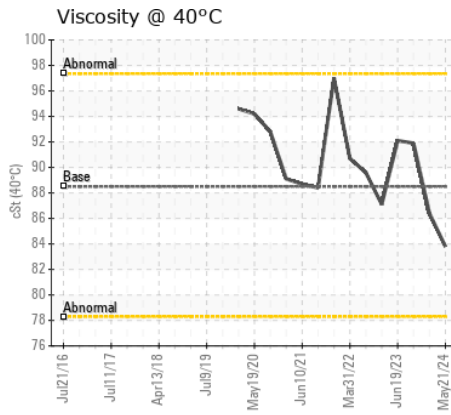
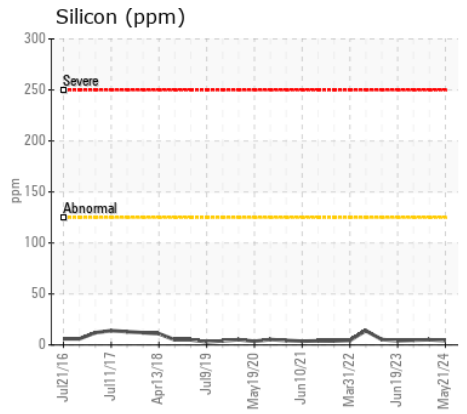
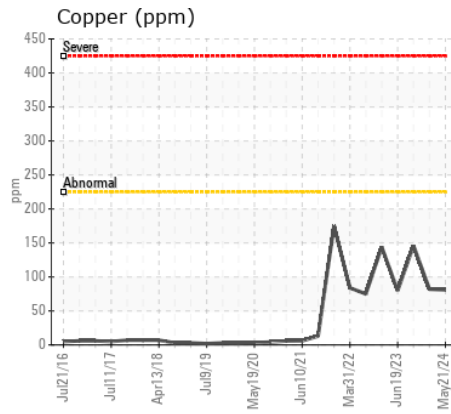
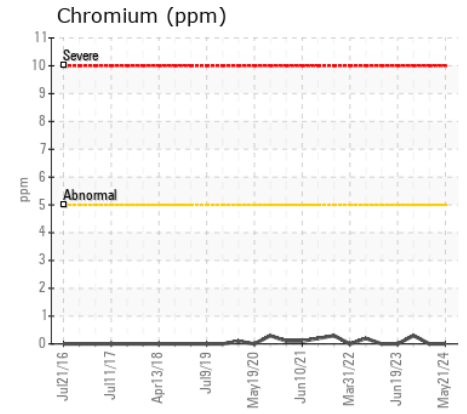
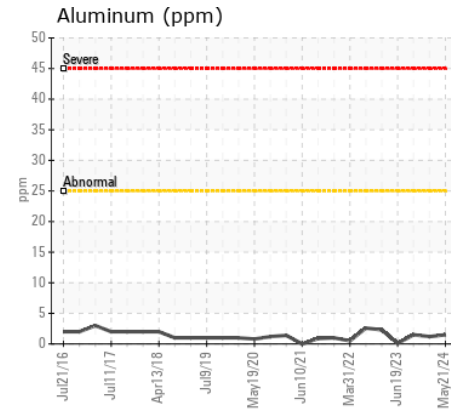
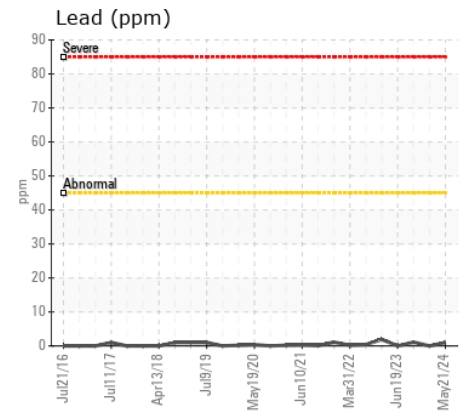
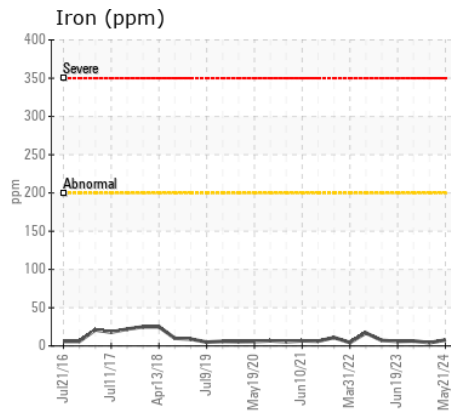
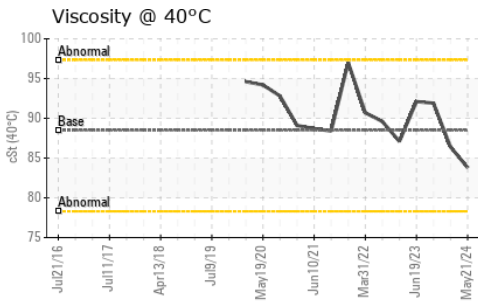
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>4</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Water		WC Method	>0.1	<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	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	0
Boron	ppm	ASTM D5185m	2	<b>3</b>	2	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	9
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	<1	2
Manganese	ppm	ASTM D5185m	9	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	1	<b>36</b>	27	23
Calcium	ppm	ASTM D5185m	3131	<b>2942</b>	3035	2548
Phosphorus	ppm	ASTM D5185m	1194	<b>1043</b>	1015	899
Zinc	ppm	ASTM D5185m	1281	<b>1158</b>	1195	1099
Sulfur	ppm	ASTM D5185m	3811	<b>4532</b>	4009	4347
Visc @ 40°C	cSt	ASTM D445	88.5	<b>83.8</b>	86.4	91.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108724  
**Lab Number** : 06193164  
**Unique Number** : 11049916  
**Test Package** : MOB 1

**Received** : 28 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 30 May 2024 - Sean Felton

**Kemp Quarries - Kemp Stone - Neosho**  
 19148 Ingersol Lane  
 Neosho, MO  
 US 64850

Contact:  
 neosho@kempstone.com

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)

T:  
 F: