WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

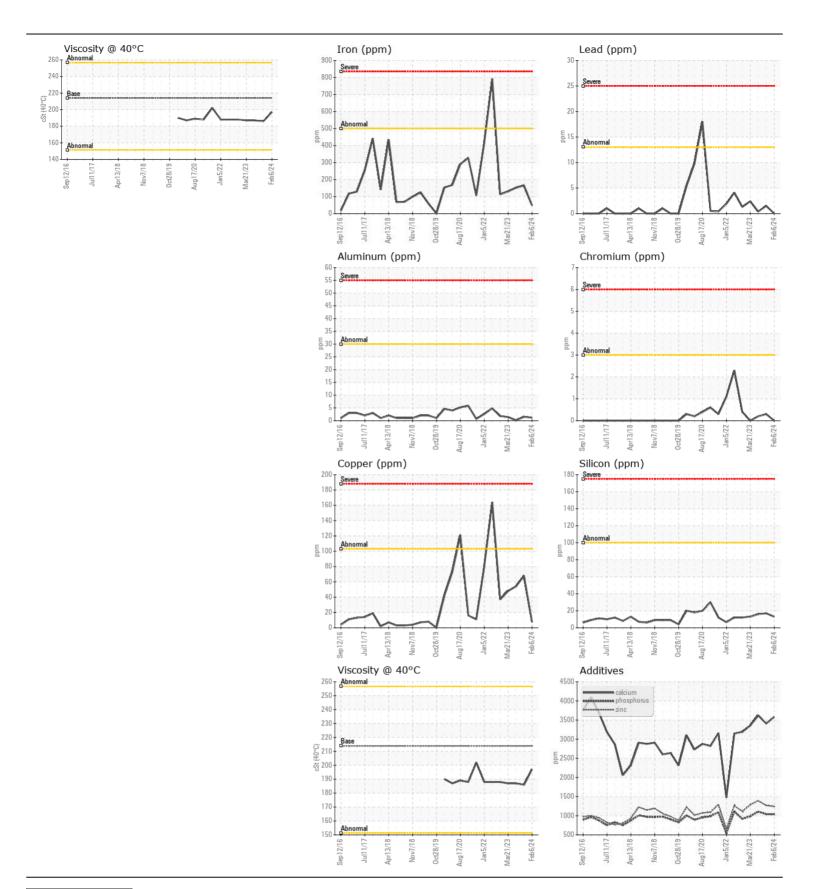
KEMP QUARRIES / NEOSHO [68014]

WL111 Component

Component Rear Differential

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

PETRO CANADA PRODURO TO-4 SAE 50 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 sampled fluid. Oil extremely overfilled coming out	Sample Number		Client Info		PCA0086526	PCA0084707	PCA0086321
	Sample Date		Client Info		06 Feb 2024	10 Oct 2023	19 Jun 2023
vent)	Machine Age	hrs	Client Info		30222	29750	29243
	Oil Age	hrs	Client Info		30222	29750	29243
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>500	48	165	152
	Chromium	ppm	ASTM D5185m	>3	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	1	2	<1
	Lead	ppm	ASTM D5185m	>13	0	2	<1
	Copper	ppm	ASTM D5185m	>103	7	68	54
	Tin	ppm	ASTM D5185m	>5	<1	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	13	17	16
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	0
There is no indication of any contamination in the oil.	Water		WC Method	>.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	1
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	2	0	0	0
The contained of the of is acceptable for the time in service.	Barium	ppm	ASTM D5185m	0	0	9	14
	Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
	Manganese	ppm	ASTM D5185m	0	<1	1	1
	Magnesium	ppm	ASTM D5185m	9	17	15	30
	Calcium	ppm	ASTM D5185m	3114	3577	3408	3619
	Phosphorus	ppm	ASTM D5185m	1099	1037	1042	1105
	Zinc	ppm	ASTM D5185m	1245	1242	1270	1389
	Sulfur	ppm	ASTM D5185m	7086	4685	5112	5364
	Visc @ 40°C	cSt	ASTM D445	213.9	197	186	187
D							





Certificate L2367

Laboratory Sample No.

: PCA0086526 Lab Number : 06088406 Unique Number : 10875851 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 13 Feb 2024 : 14 Feb 2024 Diagnosed

: 15 Feb 2024 - Sean Felton

Kemp Quarries - Kemp Stone - Neosho

19148 Ingersol Lane Neosho, MO

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* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)