WEAR CONTAMINATION FLUID CONDITION

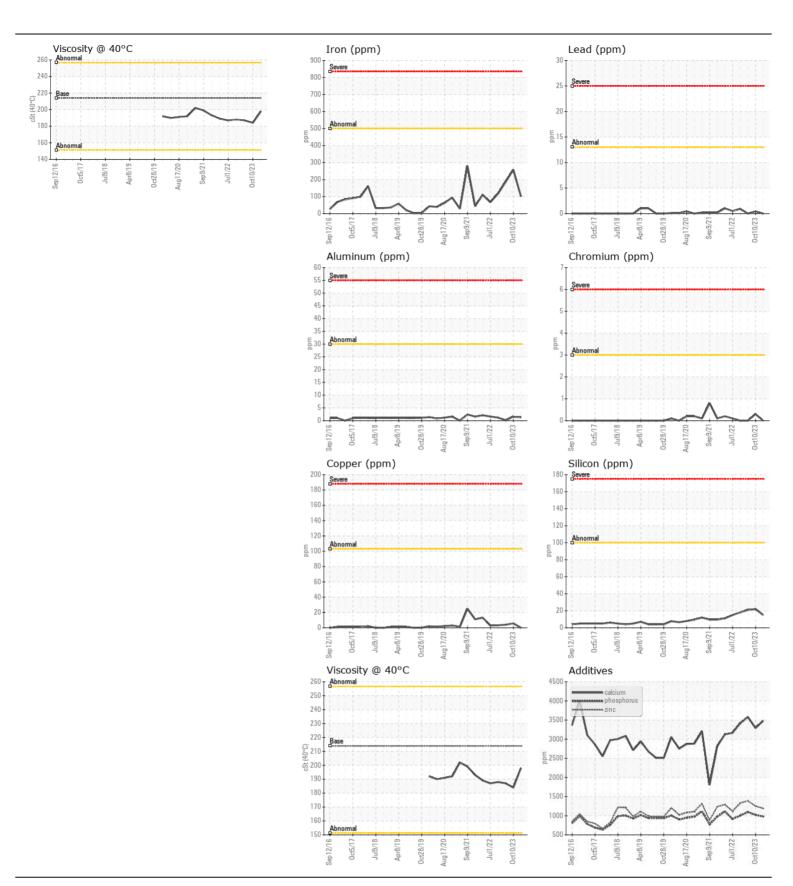
NORMAL NORMAL

KEMP QUARRIES / NEOSHO [68014]

WL111
Component
Front Differential

Fluid

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)	Sample Number		Client Info		PCA0086527	PCA0084708	PCA0086322
	Sample Date		Client Info		06 Feb 2024	10 Oct 2023	19 Jun 2023
	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	100	257	187
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>3	0	<1	0
	Nickel	ppm	ASTM D5185m	>3	0	<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	<1	0
	Copper	ppm	ASTM D5185m	>103	0	6	4
	Tin	ppm	ASTM D5185m	>5	<1	0	0
	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	15	22	21
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	0
, , , , , , , , , , , , , , , , , , , ,	Water		WC Method	>.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	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
	Barium	ppm	ASTM D5185m	0	0	9	14
	Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
	Manganese	ppm	ASTM D5185m	0	<1	2	2
	Magnesium	ppm	ASTM D5185m		17	13	29
	Calcium	ppm	ASTM D5185m		3478	3290	3582
	Phosphorus	ppm	ASTM D5185m		978	1019	1097
	Zinc	ppm	ASTM D5185m		1191	1250	1389
	Sulfur	ppm	ASTM D5185m		4445	4984	5350
	Visc @ 40°C	cSt	ASTM D445	213.9	198	184	187





Certificate L2367

Laboratory Sample No.

Lab Number : 06088404 Unique Number: 10875849 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Feb 2024 : PCA0086527

: 14 Feb 2024 **Tested** Diagnosed

: 15 Feb 2024 - Sean Felton

Kemp Quarries - Kemp Stone - Neosho

19148 Ingersol Lane Neosho, MO US 64850

Contact:

T: F:

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

neosho@kempstone.com

* - 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)