WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

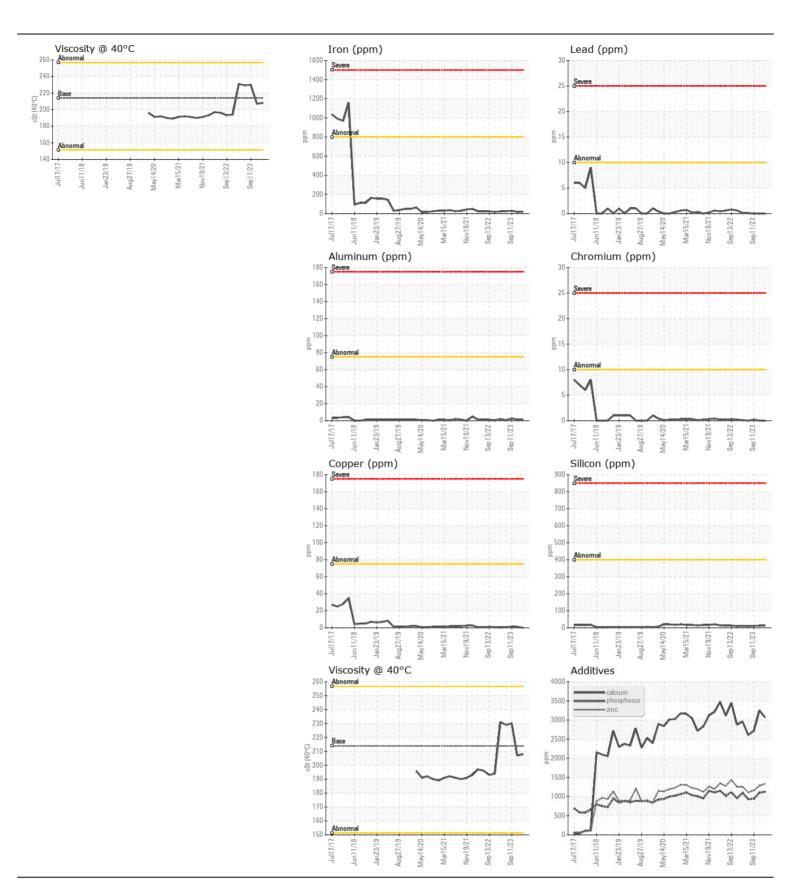
KEMP QUARRIES / MUSKOGEE SAND [68593]

WL109

Component Front Left Final Drive

PETPO 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-2 sampled fluid)	Sample Number		Client Info		PCA0086521	PCA0070582	PCA0048602
	Sample Date		Client Info		05 Feb 2024	22 Nov 2023	11 Sep 2023
	Machine Age	hrs	Client Info		50702	50215	49706
	Oil Age	hrs	Client Info		50702	50215	49706
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>800	19	16	29
	Chromium	ppm	ASTM D5185m		0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		1	1	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>75	0	<1	1
	Tin	ppm	ASTM D5185m	>8	0	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							
CONTAMINATION	Silicon	ppm	ASTM D5185m		12	12	11
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	2	2
	Water		WC Method		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	>0.2	NEG	NEG	0.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	0
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	2	0	0	2
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	0	<1	2
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	9	13	13	14
	Calcium	ppm	ASTM D5185m	3114	3069	3245	2714
	Phosphorus	ppm	ASTM D5185m	1099	1125	1099	943
	Zinc	ppm	ASTM D5185m		1333	1281	1160
	Sulfur	ppm	ASTM D5185m		5204	5394	4524
	Visc @ 40°C	cSt	ASTM D445	213.9	208	207	230
D VENDOD BAULOGA DI 00000000 (O L. 00/15/0004 47 40 04) D						0	and the set December







Certificate L2367

Laboratory Sample No.

Lab Number : 06088388 Unique Number : 10875833

: PCA0086521

Test Package : MOB 1

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

: 14 Feb 2024 **Tested** : 15 Feb 2024 - Sean Felton Diagnosed

3395 W 50th St N Porter, OK US 74454

Contact: muskogee@muskogeesand.com

> T: F:

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

Kemp Quarries - Muskogee Sand

* - 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)