**WEAR** CONTAMINATION **FLUID CONDITION** 

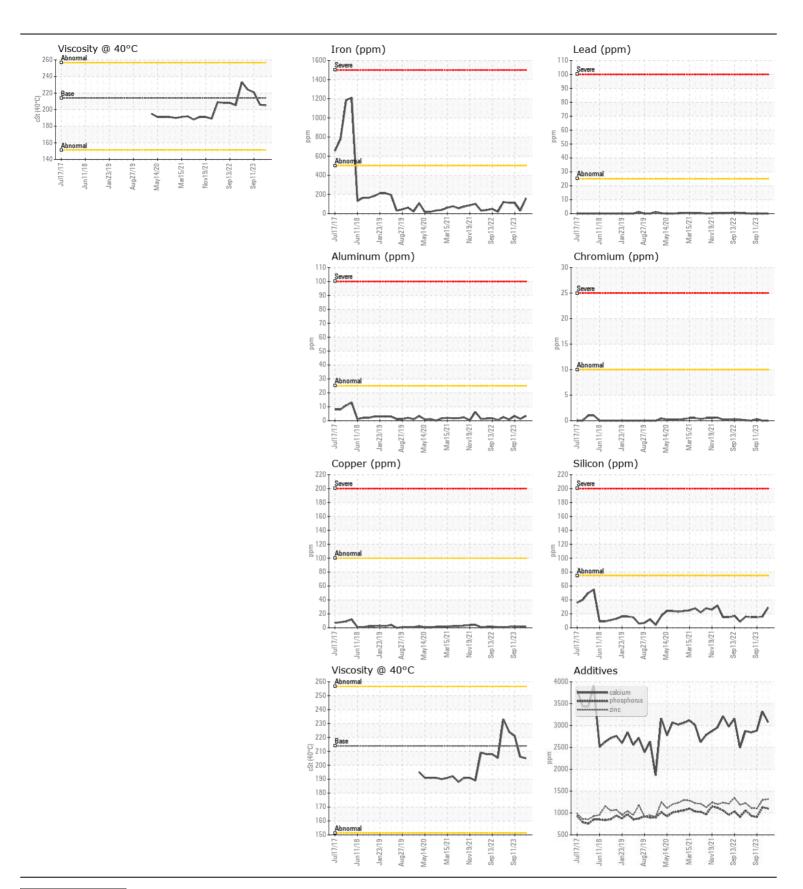
**NORMAL NORMAL NORMAL** 

## KEMP QUARRIES / MUSKOGEE SAND [68593]

WL109

Component Rear Differential

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. ( Customer Sample	Sample Number		Client Info		PCA0086515	PCA0070578	PCA004860
Comment: PM-2 sampled fluid )	Sample Date		Client Info		05 Feb 2024	22 Nov 2023	11 Sep 202
	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	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>500	159	30	112
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	<1
	Nickel	ppm	ASTM D5185m	>10	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	3	1	3
	Lead	ppm	ASTM D5185m	>25	0	0	0
	Copper	ppm	ASTM D5185m	>100	2	2	2
	Tin	ppm	ASTM D5185m	>10	<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	>75	29	16	15
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	2	2
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	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	1	0	2
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	0	0	1
	Manganese	ppm	ASTM D5185m	0	1	0	1
	Magnesium	ppm	ASTM D5185m	9	13	13	14
	Calcium	ppm	ASTM D5185m	3114	3076	3317	2882
	Phosphorus	ppm	ASTM D5185m		1100	1129	909
	Zinc	ppm	ASTM D5185m		1316	1294	1102
	Sulfur	ppm	ASTM D5185m	7086	5193	5361	4178





Certificate L2367

Report Id: KEMPOR [WUSCAR] 06088383 (Generated: 02/15/2024 17:43:25) Rev: 1

Laboratory Sample No.

Lab Number : 06088383 Unique Number: 10875828 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0086515

**Tested** Diagnosed

Received : 13 Feb 2024 : 14 Feb 2024

: 15 Feb 2024 - Sean Felton

Kemp Quarries - Muskogee Sand 3395 W 50th St N

Porter, OK US 74454

Contact: muskogee@muskogeesand.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)

Submitted By:

T: F: