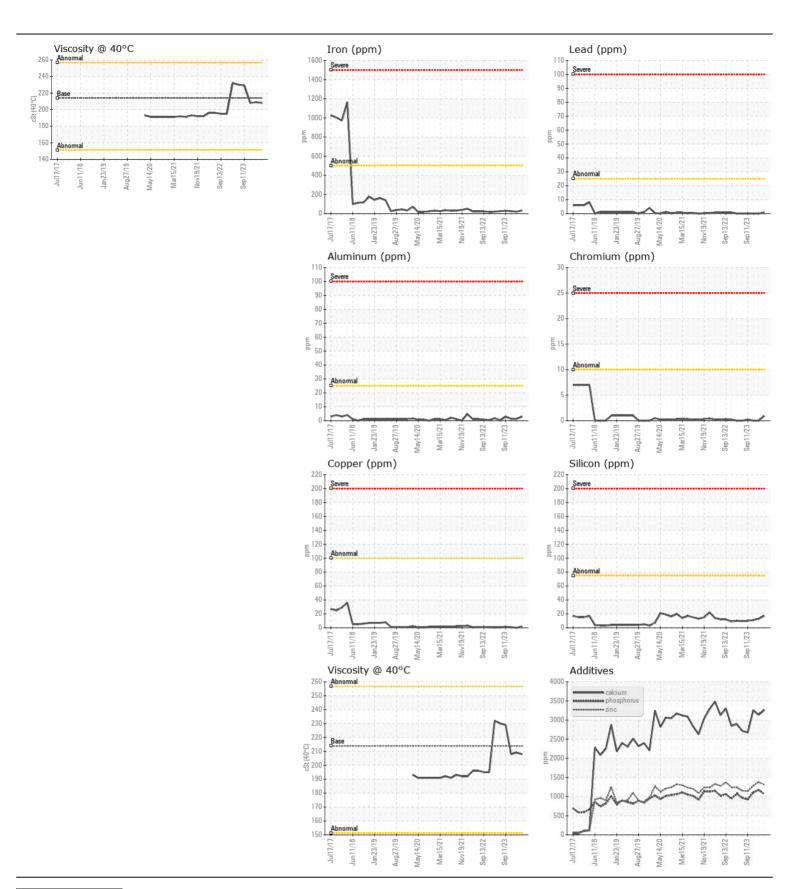
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

KEMP QUARRIES / MUSKOGEE SAND [69617]

WL109

Front Differential

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample	Sample Number		Client Info		PCA0109271	PCA0086514	PCA007057
Comment: PM-3 sampled fluid)	Sample Date		Client Info		04 Apr 2024	05 Feb 2024	22 Nov 202
	Machine Age	hrs	Client Info		58740	50702	50215
	Oil Age	hrs	Client Info		51204	50702	50215
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>500	32	20	25
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	0	0
	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	3	1	1
	Lead	ppm	ASTM D5185m	>25	<1	0	0
	Copper	ppm	ASTM D5185m	>100	2	0	<1
	Tin	ppm	ASTM D5185m	>10	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	17	13	11
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	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	<1	0
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	2	1	0	0
	Barium	ppm	ASTM D5185m	0	1	0	0
	Molybdenum	ppm	ASTM D5185m	0	1	0	0
	Manganese	ppm	ASTM D5185m	0	<1	<1	0
	Magnesium	ppm	ASTM D5185m	9	14	14	12
	Calcium	ppm	ASTM D5185m	3114	3262	3136	3254
	Phosphorus	ppm	ASTM D5185m	1099	1068	1174	1104
	Zinc	ppm	ASTM D5185m	1245	1312	1378	1281
	Sulfur	ppm	ASTM D5185m	7086	5439	5395	5253
	Visc @ 40°C	cSt	ASTM D445	213.9	208	209	208





Certificate L2367

Laboratory Sample No.

: PCA0109271 Lab Number : 06149079 Unique Number: 10979157 Test Package : MOB 1

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Apr 2024 **Tested** : 16 Apr 2024

: 17 Apr 2024 - Sean Felton Diagnosed

Kemp Quarries - Muskogee Sand

3395 W 50th St N Porter, OK US 74454

Contact:

T: F:

muskogee@muskogeesand.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)