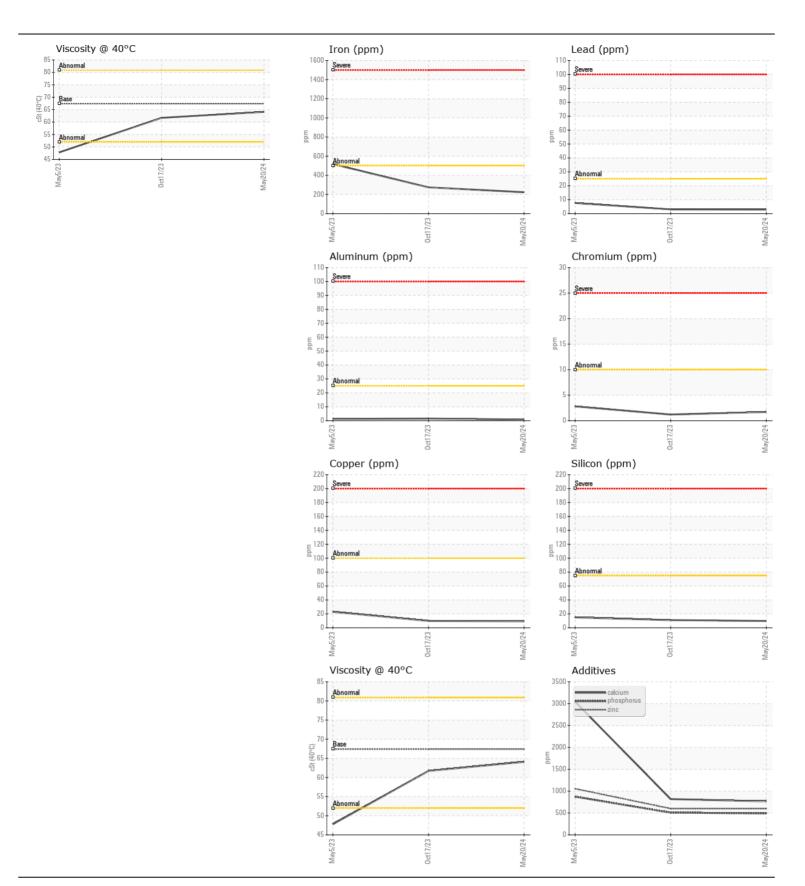
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

## KEMP QUARRIES / BCS - STILLWELL [68279]

**WL144** 

Front Differential

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		PCA0109093	PCA0086991	PCA008570
	Sample Date		Client Info		20 May 2024	17 Oct 2023	05 May 202
	Machine Age	hrs	Client Info		23340	22822	22358
	Oil Age	hrs	Client Info		23340	22822	22358
	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	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>500	223	274	<u></u> 517
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	2	1	3
	Nickel	ppm	ASTM D5185m	>10	2	3	5
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		1	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	2	1
	Lead	ppm	ASTM D5185m	>25	3	3	8
	Copper	ppm	ASTM D5185m	>100	9	10	23
	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
	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	10	11	15
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	1	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	0
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	0	6	8	29
	Barium	ppm	ASTM D5185m	0	0	9	0
	Molybdenum	ppm	ASTM D5185m	0	13	8	17
	Manganese	ppm	ASTM D5185m	0	2	2	4
	Magnesium	ppm	ASTM D5185m	0	137	51	84
	Calcium	ppm	ASTM D5185m	50	766	818	3046
	Phosphorus	ppm	ASTM D5185m	330	491	508	874
	Zinc	ppm	ASTM D5185m		599	600	1055
	Sulfur	ppm	ASTM D5185m	760	1592	1707	3327
	Visc @ 40°C	cSt	ASTM D445	67.4	64.1	61.7	47.8





Certificate L2367

Laboratory Sample No.

Lab Number : 06193083 Unique Number : 11049835

: PCA0109093 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested** 

: 30 May 2024 Diagnosed : 30 May 2024 - Sean Felton

Kemp Quarries - Benton County Stone - Stillwell

463917 Highway 100 Bunch, OK US 74931

Contact:

stilwell@bentoncountystone.com

T: F:

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)