



OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**KEMP QUARRIES / RIVER VALLEY BACKBONE**

Machine Id  
**OHT082**

Component  
**Rear Differential**

Fluid  
**MOBIL MOBILTRANS HD 50 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0108989</b>	PCA0086911	PCA0069699
Sample Date		Client Info		<b>18 Jun 2024</b>	10 Apr 2024	06 Nov 2023
Machine Age	hrs	Client Info		<b>3576</b>	3400	3045
Oil Age	hrs	Client Info		<b>1237</b>	1237	3045
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>13</b>	19	35
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	2	2
Lead	ppm	ASTM D5185m	>25	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>100	<b>2</b>	2	6
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

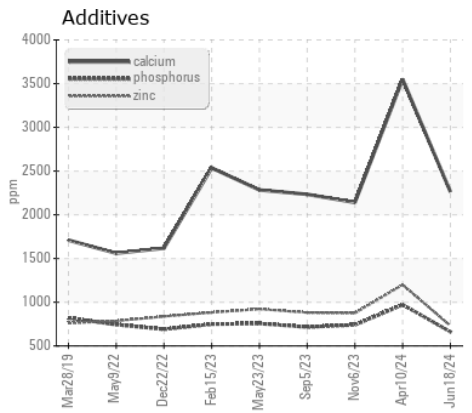
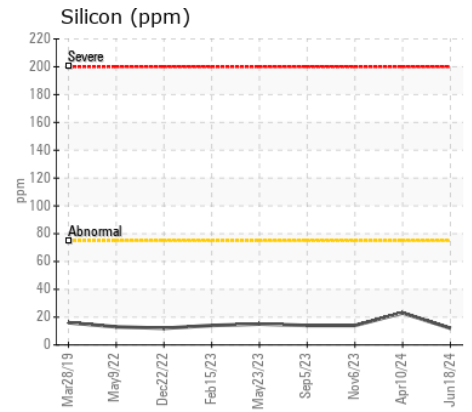
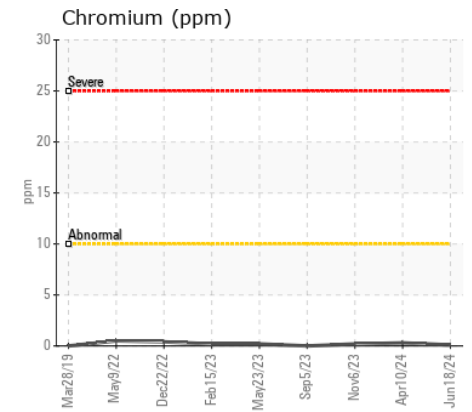
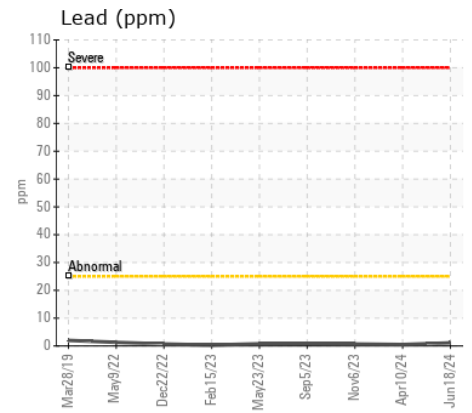
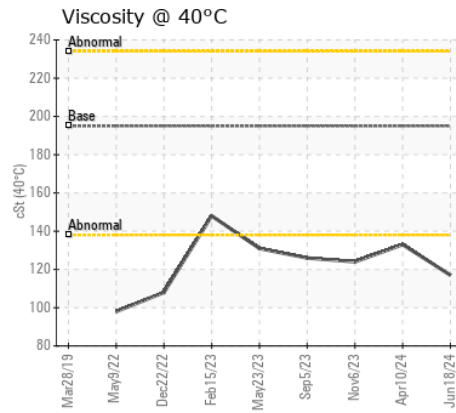
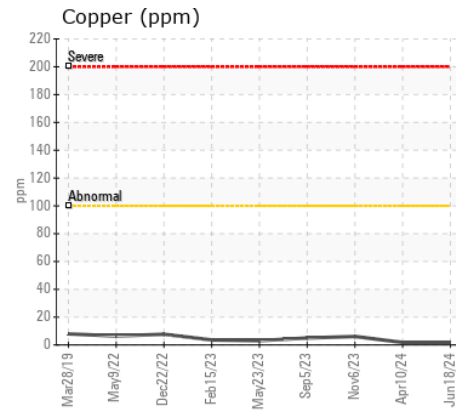
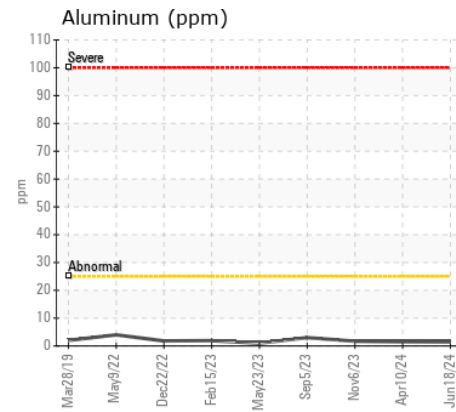
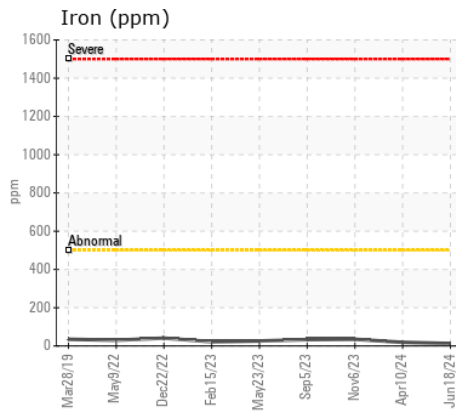
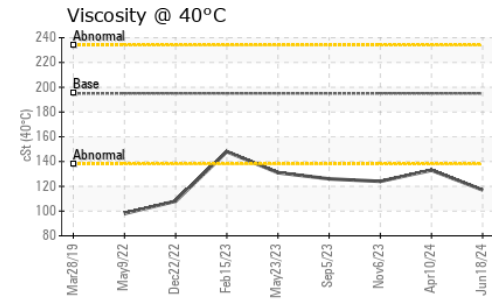
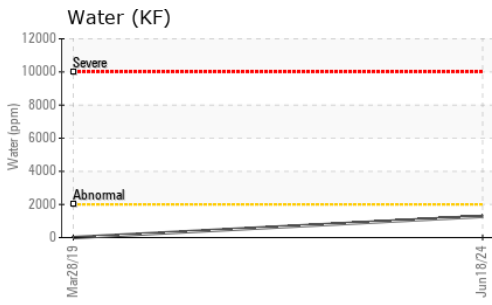
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>12</b>	23	14
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	2
Water	%	ASTM D6304	>.2	<b>0.128</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>1280</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>0.2%</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>3</b>	0	0
Boron	ppm	ASTM D5185m		<b>3</b>	3	8
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	3	3
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>11</b>	18	36
Calcium	ppm	ASTM D5185m		<b>2264</b>	3550	2141
Phosphorus	ppm	ASTM D5185m		<b>662</b>	972	741
Zinc	ppm	ASTM D5185m		<b>731</b>	1200	876
Sulfur	ppm	ASTM D5185m		<b>3159</b>	4812	5925
Visc @ 40°C	cSt	ASTM D445	195	<b>117</b>	133	124



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108989 **Received** : 27 Jun 2024  
**Lab Number** : 06222910 **Tested** : 01 Jul 2024  
**Unique Number** : 11101107 **Diagnosed** : 01 Jul 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: KF )

**Kemp Quarries - River Valley - Backbone**  
 5600 S Hwy 253  
 Huntington, AR  
 US 72940  
 Contact:  
 backbone@rivervalleyquarries.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)

T:  
F: