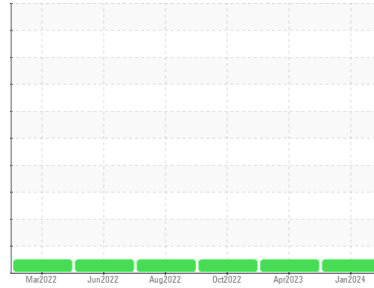


# OIL ANALYSIS REPORT



Area  
**KEMP QUARRIES / RIVER VALLEY BACKBONE**  
Machine Id  
**WL147**  
Component  
**Front Left Final Drive**  
Fluid  
**TDTO FLUID SAE 50 (--- GAL)**

Sample Rating Trend



**NORMAL**

**DIAGNOSIS**

**Recommendation**  
Resample at the next service interval to monitor.

**Wear**  
All component wear rates are normal.

**Contamination**  
There is no indication of any contamination in the oil.

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

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>PCA0069948</b>	PCA0085828	PCA0070029	
Sample Date	Client Info	<b>30 Jan 2024</b>	06 Apr 2023	10 Oct 2022	
Machine Age	hrs	Client Info	<b>29627</b>	28770	28211
Oil Age	hrs	Client Info	<b>1200</b>	345	990
Oil Changed	Client Info	<b>Changed</b>	Not Changd	Not Changd	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

**CONTAMINATION** method limit/base current history1 history2

Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
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**WEAR METALS** method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>800	<b>7</b>	11	15
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>75	<b>2</b>	<1	1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>1</b>	1	2
Tin	ppm	ASTM D5185m	>8	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

**ADDITIVES** method limit/base current history1 history2

Boron	ppm	ASTM D5185m	37	<b>&lt;1</b>	0	2
Barium	ppm	ASTM D5185m	7	<b>5</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>5</b>	2	1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	40	<b>89</b>	18	15
Calcium	ppm	ASTM D5185m	2650	<b>191</b>	566	969
Phosphorus	ppm	ASTM D5185m	1050	<b>402</b>	440	505
Zinc	ppm	ASTM D5185m	1075	<b>517</b>	595	641
Sulfur	ppm	ASTM D5185m	5750	<b>1069</b>	1967	3156

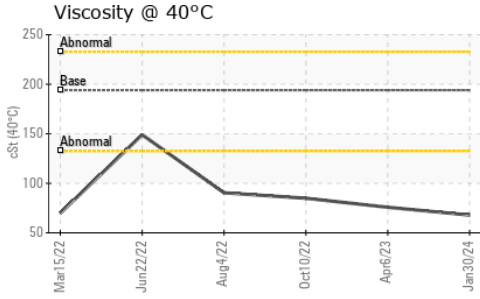
**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>400	<b>0</b>	2	5
Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	<1

**VISUAL** method limit/base current history1 history2

White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT



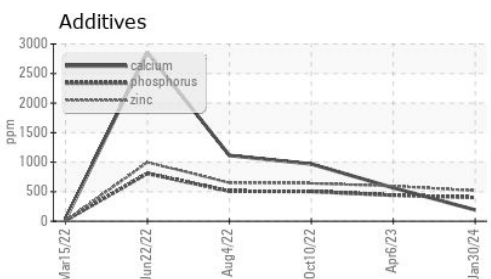
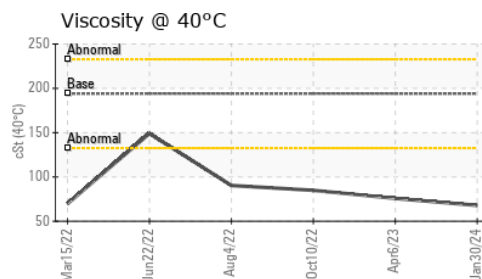
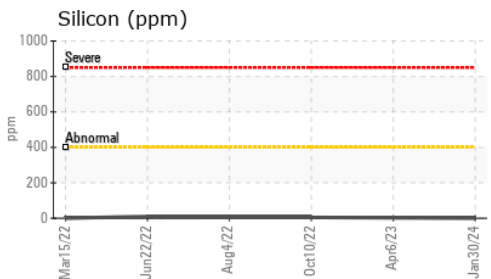
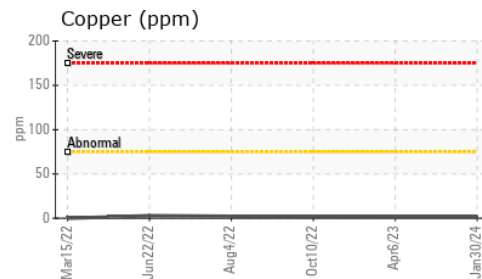
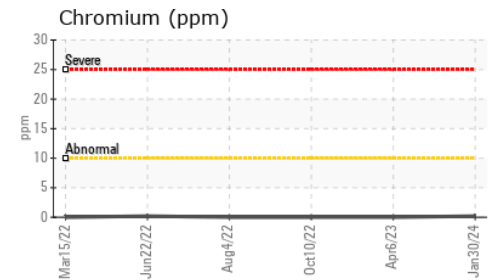
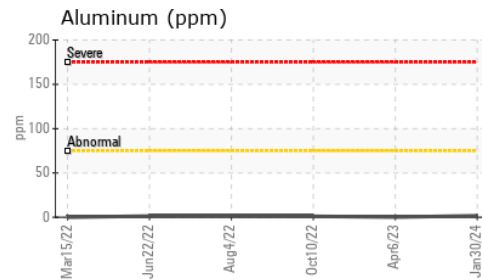
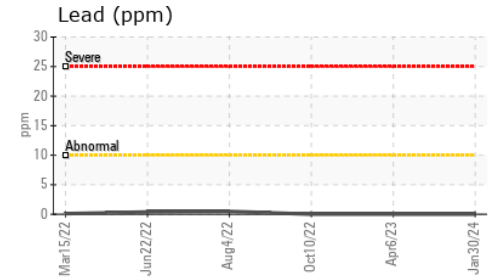
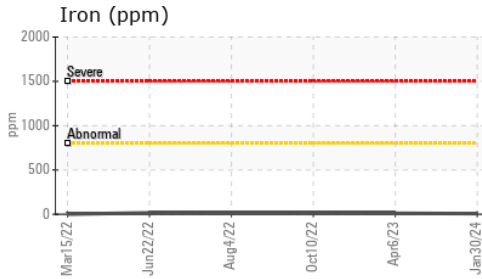
## FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	194	<b>67.9</b>	75.8	84.9

## SAMPLE IMAGES

method	limit/base	current	history1	history2	
Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0069948  
**Lab Number** : 06082062  
**Unique Number** : 10869507  
**Test Package** : MOB 1

**Received** : 06 Feb 2024  
**Tested** : 07 Feb 2024  
**Diagnosed** : 08 Feb 2024 - Jonathan Hester

**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: