



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



Area  
**KEMP QUARRIES / HULBERT**  
Machine Id  
**WL067**  
Component  
**Rear Left Final Drive**  
Fluid  
**MOBIL MOBILTRANS HD 50 (--- GAL)**

**RECOMMENDATION**

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0085904</b>	PCA0086823	PCA0048714
Sample Date		Client Info		<b>05 Apr 2024</b>	28 Jul 2023	24 Sep 2021
Machine Age	hrs	Client Info		<b>32148</b>	32149	29147
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>None</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	SEVERE

**WEAR**

High concentration of visible metal present. Gear wear is indicated. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>800	<b>▲ 691</b>	409	53
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	<1	0
Titanium	ppm	ASTM D5185m	>15	<b>2</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>75	<b>26</b>	20	2
Lead	ppm	ASTM D5185m	>10	<b>1</b>	2	0
Copper	ppm	ASTM D5185m	>75	<b>▲ 111</b>	▲ 99	14
Tin	ppm	ASTM D5185m	>8	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>▲ HEAVY</b>	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

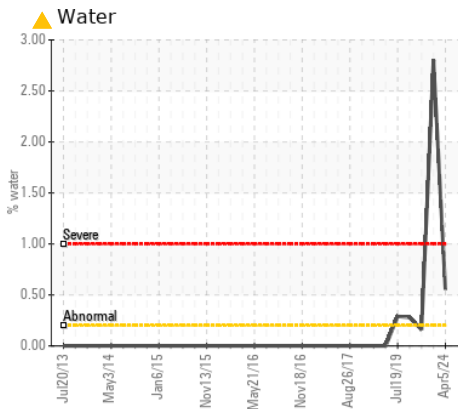
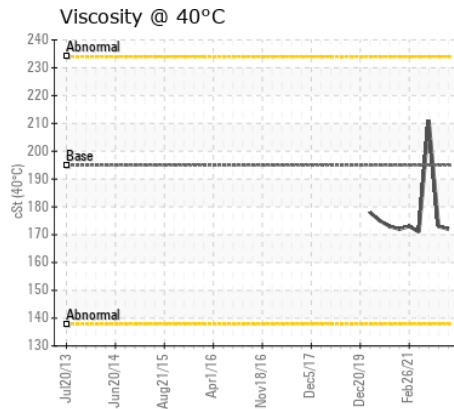
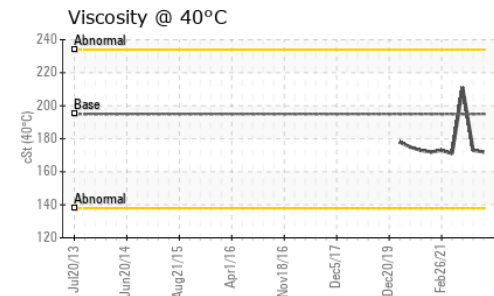
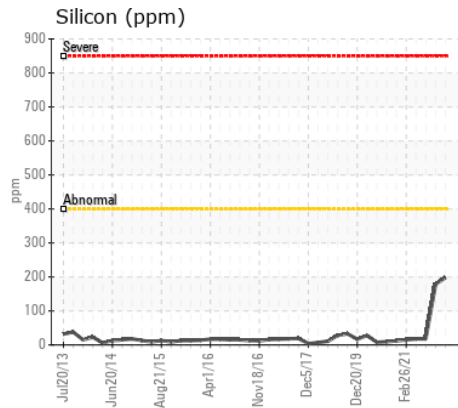
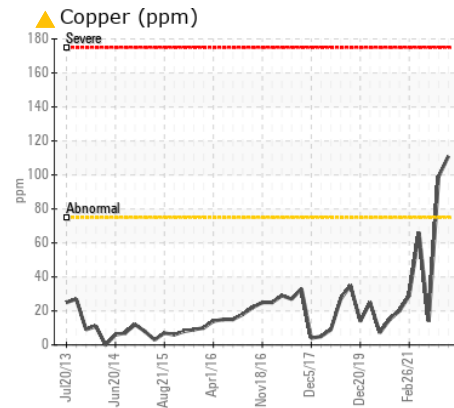
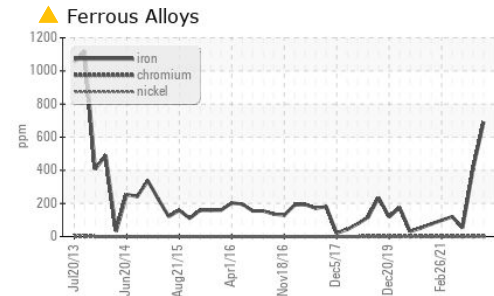
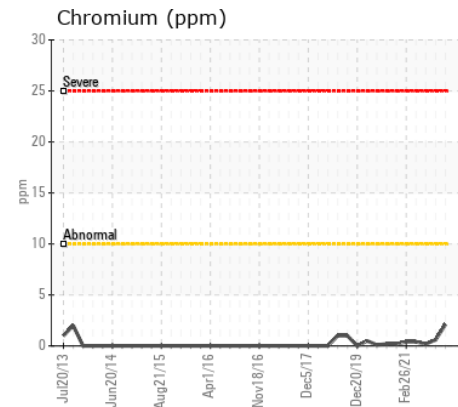
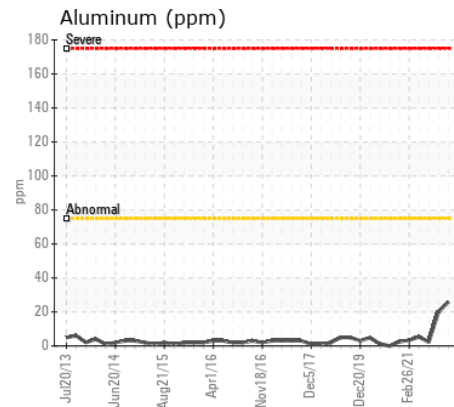
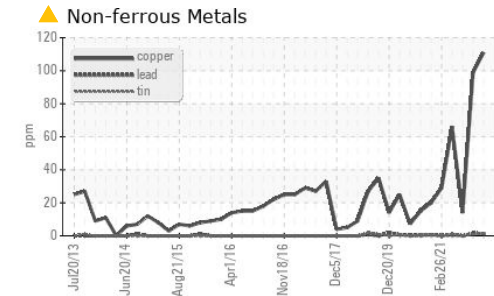
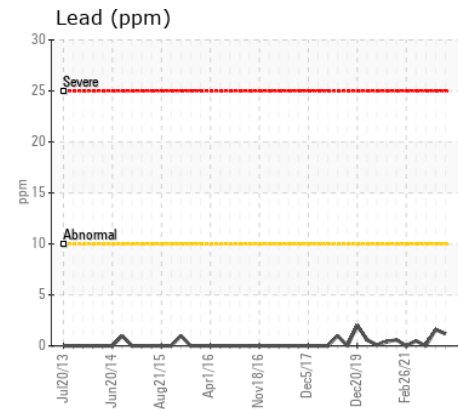
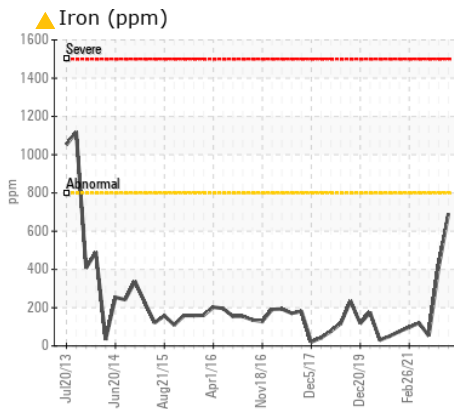
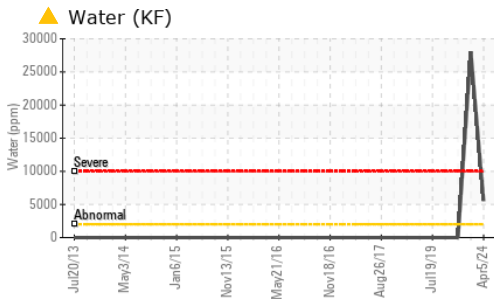
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>400	<b>198</b>	179	18
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	1	0
Water	%	ASTM D6304	>0.2	<b>▲ 0.556</b>	---	▲ 2.80
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 5560</b>	---	▲ 28000
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
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>▲ 0.2%</b>	NEG	▲ 0.2%

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>6</b>	4	3
Boron	ppm	ASTM D5185m		<b>2</b>	2	28
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>4</b>	3	2
Manganese	ppm	ASTM D5185m		<b>6</b>	4	<1
Magnesium	ppm	ASTM D5185m		<b>60</b>	59	28
Calcium	ppm	ASTM D5185m		<b>2974</b>	2726	2404
Phosphorus	ppm	ASTM D5185m		<b>936</b>	989	797
Zinc	ppm	ASTM D5185m		<b>1201</b>	1221	926
Sulfur	ppm	ASTM D5185m		<b>5020</b>	5310	2838
Visc @ 40°C	cSt	ASTM D445	195	<b>172</b>	173	211



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0085904  
**Lab Number** : 06149730  
**Unique Number** : 10979808  
**Test Package** : MOB 1 ( Additional Tests: KF )

**Kemp Quarries - Kemp Stone - Hulbert**  
 17801 Hwy 80  
 Hulbert, OK  
 US 74441  
 Contact:  
 hulbert@kempstone.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)