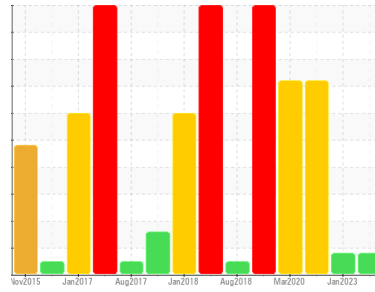


OIL ANALYSIS REPORT

Area
KEMP QUARRIES / RIVER VALLEY OZARK
 Machine Id
WL091
 Component
Rear Differential
 Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

Sample Rating Trend



DIAGNOSIS

- Recommendation**
No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
Gear wear is indicated.
- 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	PCA0086935	PCA0086189	PCA0034839
Sample Date	Client Info	16 Apr 2024	13 Jan 2023	23 Jan 2021
Machine Age	hrs	25576	24686	23316
Oil Age	hrs	184746	0	0
Oil Changed	Client Info	N/A	Not Changd	Not Changd
Sample Status		ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	▲ 1266	▲ 1291	▲ 2558
Chromium	ppm ASTM D5185m >10	1	2	4
Nickel	ppm ASTM D5185m >10	<1	<1	<1
Titanium	ppm ASTM D5185m	1	4	4
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >25	2	8	9
Lead	ppm ASTM D5185m >25	1	1	2
Copper	ppm ASTM D5185m >100	7	22	8
Tin	ppm ASTM D5185m >10	0	2	2
Antimony	ppm ASTM D5185m >5	---	---	0
Vanadium	ppm ASTM D5185m	0	<1	<1
Cadmium	ppm ASTM D5185m	<1	<1	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	3	17	116
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	<1	2	4
Manganese	ppm ASTM D5185m	9	10	17
Magnesium	ppm ASTM D5185m	15	31	58
Calcium	ppm ASTM D5185m	3173	3205	544
Phosphorus	ppm ASTM D5185m	1015	923	1023
Zinc	ppm ASTM D5185m	1015	1189	264
Sulfur	ppm ASTM D5185m	5040	7382	24322

CONTAMINANTS

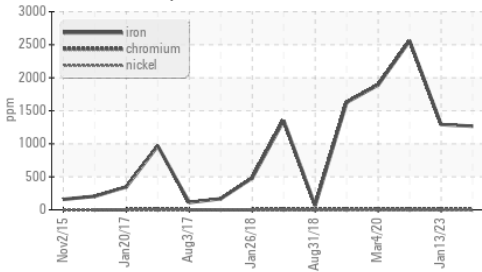
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	60	69	72
Sodium	ppm ASTM D5185m	0	4	4
Potassium	ppm ASTM D5185m >20	2	1	0

VISUAL

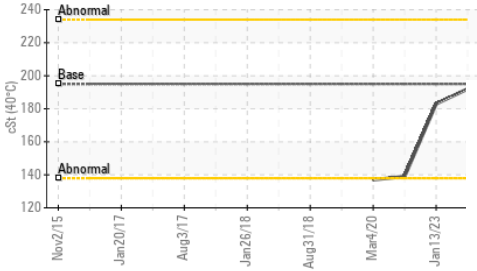
method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar *Visual NONE	NONE	NONE	NONE
Precipitate	scalar *Visual NONE	NONE	NONE	NONE
Silt	scalar *Visual NONE	NONE	NONE	NONE
Debris	scalar *Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar *Visual NONE	NONE	NONE	NONE
Appearance	scalar *Visual NORML	NORML	NORML	NORML
Odor	scalar *Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar *Visual >.2	NEG	NEG	NEG
Free Water	scalar *Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

▲ Ferrous Alloys



Viscosity @ 40°C



FLUID PROPERTIES method limit/base current history1 history2

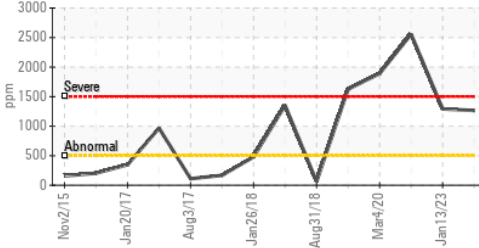
Visc @ 40°C cSt ASTM D445 195 **192** 183 139

SAMPLE IMAGES method limit/base current history1 history2

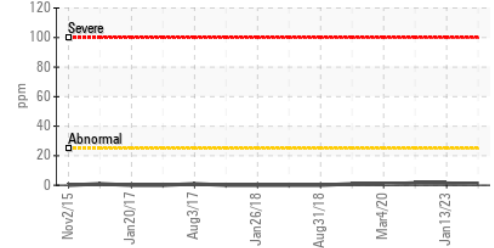
Color		no image	no image	no image
Bottom		no image	no image	no image

GRAPHS

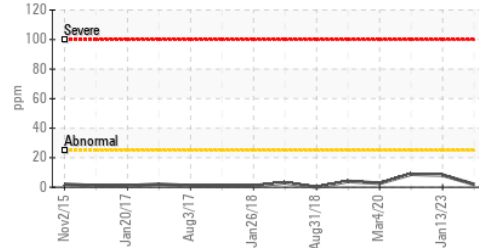
▲ Iron (ppm)



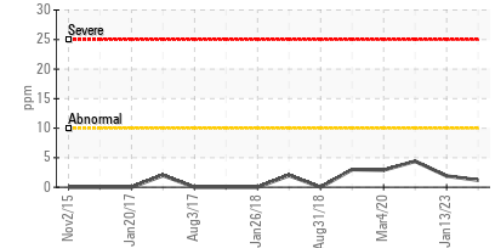
Lead (ppm)



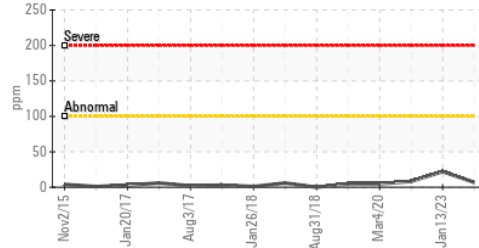
Aluminum (ppm)



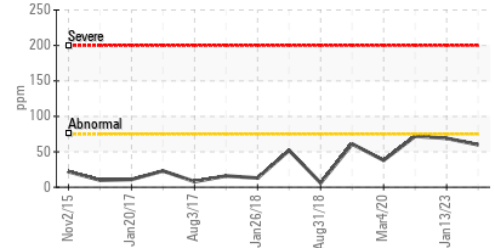
Chromium (ppm)



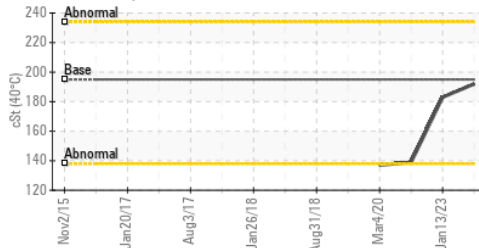
Copper (ppm)



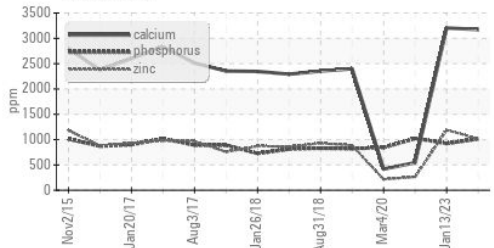
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086935 **Received** : 19 Apr 2024
Lab Number : 06155368 **Tested** : 24 Apr 2024
Unique Number : 10990791 **Diagnosed** : 24 Apr 2024 - Jonathan Hester
Test Package : MOB 1

Kemp Quarries - River Valley - Ozark
 9446 N Hwy 309
 Ozark, AR
 US 72949
 Contact:
 ozark@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: