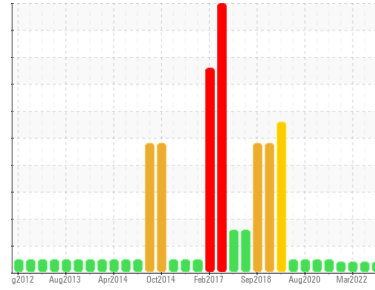


Area
KEMP QUARRIES / HULBERT
Machine Id
OHT049
Component
Rear Differential
Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0086125	PCA0061810	PCA0048862
Sample Date	Client Info	23 Sep 2023	09 Dec 2022	12 Mar 2022
Machine Age	hrs	8820	7760	6320
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Changed	Not Changd	Changed
Sample Status		ATTENTION	ATTENTION	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >500	118	132	82
Chromium	ppm	ASTM D5185m >3	<1	1	<1
Nickel	ppm	ASTM D5185m >3	2	2	2
Titanium	ppm	ASTM D5185m >2	<1	<1	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >30	2	4	1
Lead	ppm	ASTM D5185m >13	4	4	2
Copper	ppm	ASTM D5185m >103	42	47	37
Tin	ppm	ASTM D5185m >5	2	2	2
Antimony	ppm	ASTM D5185m >5	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	12	16	19
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	22	27	26
Manganese	ppm	ASTM D5185m	1	1	0
Magnesium	ppm	ASTM D5185m	356	419	263
Calcium	ppm	ASTM D5185m	1118	1434	1552
Phosphorus	ppm	ASTM D5185m	739	863	749
Zinc	ppm	ASTM D5185m	894	977	969
Sulfur	ppm	ASTM D5185m	3912	5530	3646

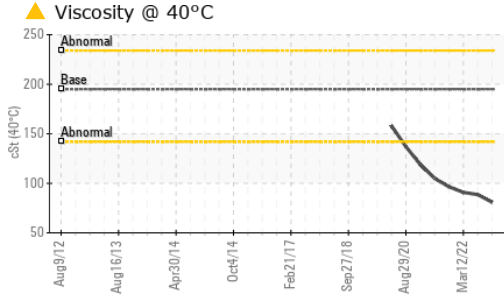
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >100	21	25	20
Sodium	ppm	ASTM D5185m	2	3	0
Potassium	ppm	ASTM D5185m >20	<1	<1	0

VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	LIGHT
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

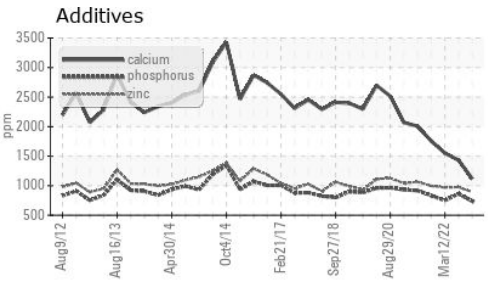
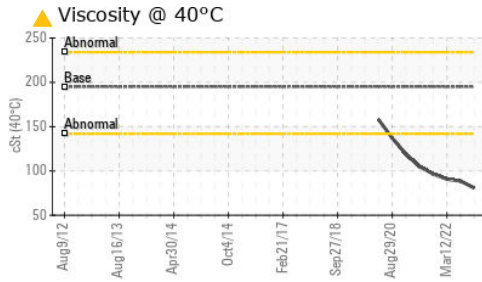
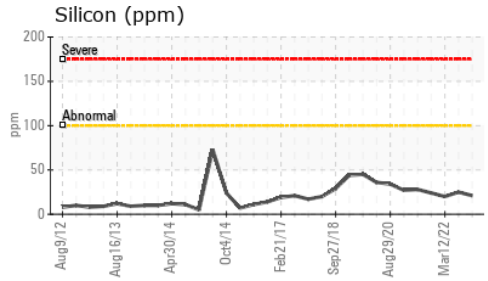
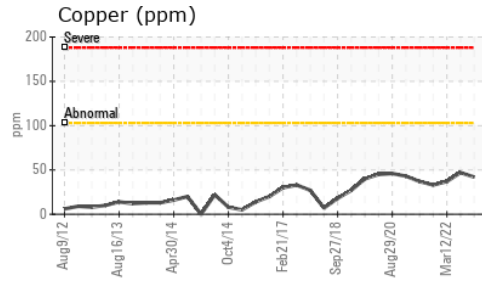
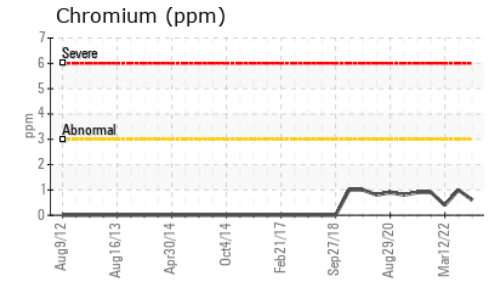
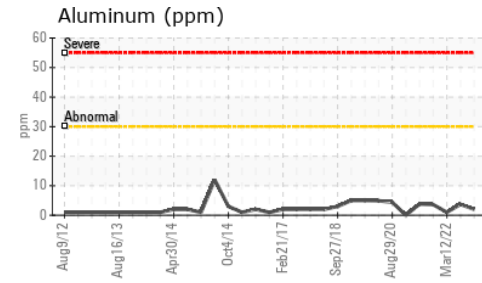
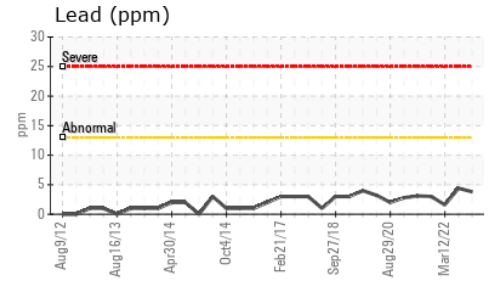
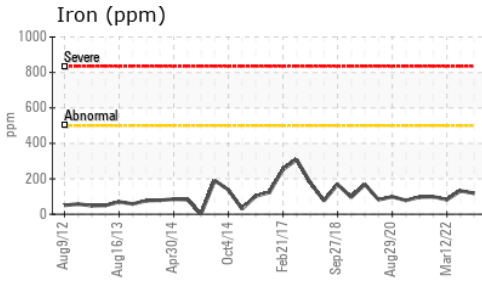
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	▲ 80.8	▲ 88.6	▲ 90.8

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. : PCA0086125
Lab Number : 05969902
Unique Number : 10681852
Test Package : MOB 1

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)

T:
F: