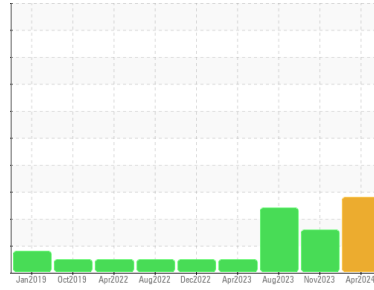


OIL ANALYSIS REPORT

Area
KEMP QUARRIES / RIVER VALLEY ARKOMA
 Machine Id
OHT102
 Component
Rear Right Final Drive
 Fluid
MOBIL MOBILUBE HD 80W90 (--- GAL)

Sample Rating Trend



WEAR



DIAGNOSIS

- Recommendation**
No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
Bearing and/or bushing wear is indicated.
- Contamination**
There is no indication of any contamination in the oil.
- Fluid Condition**
Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0034661	PCA0084413	PCA0083939
Sample Date	Client Info	03 Apr 2024	06 Nov 2023	22 Aug 2023
Machine Age	hrs	29902	29340	29115
Oil Age	hrs	29340	29115	28531
Oil Changed	Client Info	Not Changed	Not Changd	Not Changed
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	103	68	157
Chromium	ppm ASTM D5185m >10	<1	<1	1
Nickel	ppm ASTM D5185m >10	0	<1	<1
Titanium	ppm ASTM D5185m	<1	<1	<1
Silver	ppm ASTM D5185m	0	<1	0
Aluminum	ppm ASTM D5185m >25	1	2	<1
Lead	ppm ASTM D5185m >25	0	0	2
Copper	ppm ASTM D5185m >50	54	24	82
Tin	ppm ASTM D5185m >10	2	<1	3
Vanadium	ppm ASTM D5185m	0	<1	<1
Cadmium	ppm ASTM D5185m	0	<1	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	8	8	36
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	2	1	3
Manganese	ppm ASTM D5185m	2	<1	2
Magnesium	ppm ASTM D5185m	7	9	5
Calcium	ppm ASTM D5185m	2547	3326	3622
Phosphorus	ppm ASTM D5185m	662	857	935
Zinc	ppm ASTM D5185m	789	1059	1113
Sulfur	ppm ASTM D5185m	3629	4590	6187

CONTAMINANTS

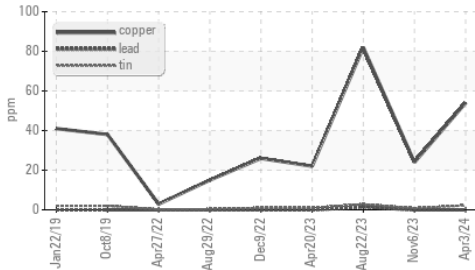
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	24	18	17
Sodium	ppm ASTM D5185m	3	0	1
Potassium	ppm ASTM D5185m >20	0	3	2

VISUAL

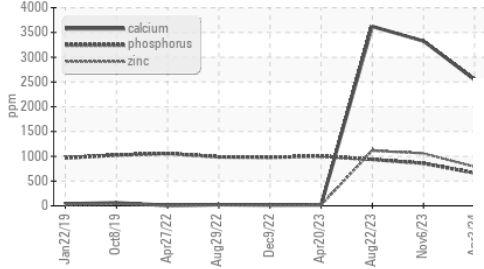
method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	NONE	LIGHT	NONE
Yellow Metal	scalar *Visual NONE	NONE	NONE	NONE
Precipitate	scalar *Visual NONE	NONE	NONE	NONE
Silt	scalar *Visual NONE	NONE	NONE	NONE
Debris	scalar *Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar *Visual NONE	NONE	NONE	NONE
Appearance	scalar *Visual NORML	NORML	NORML	NORML
Odor	scalar *Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar *Visual >0.2	NEG	NEG	NEG
Free Water	scalar *Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

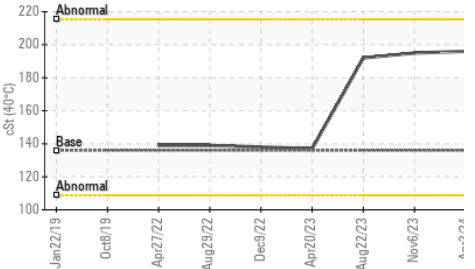
▲ Non-ferrous Metals



● Additives



Viscosity @ 40°C



FLUID PROPERTIES

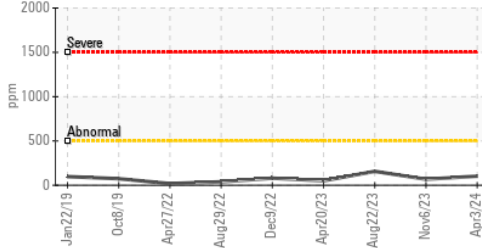
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	136	196	195

SAMPLE IMAGES

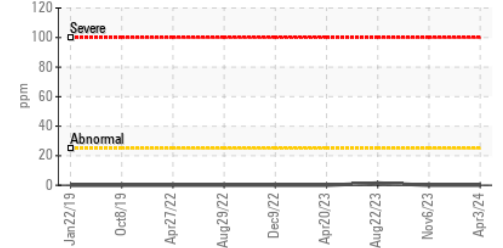
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS

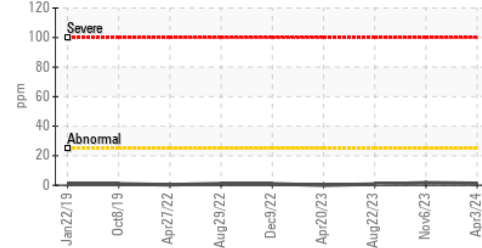
Iron (ppm)



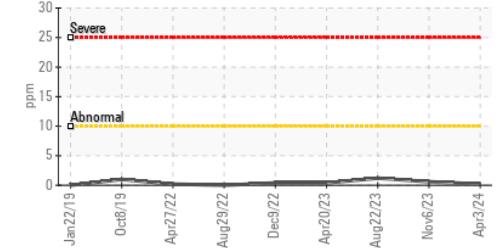
Lead (ppm)



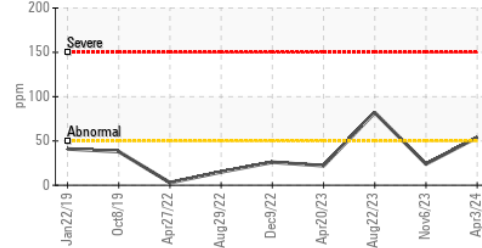
Aluminum (ppm)



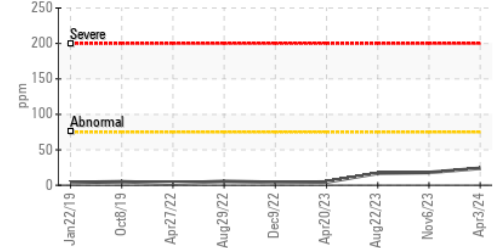
Chromium (ppm)



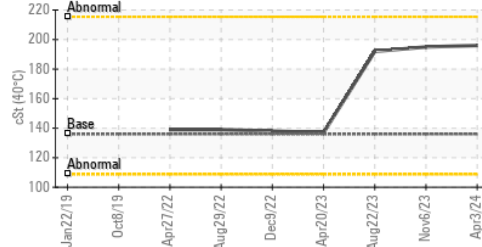
▲ Copper (ppm)



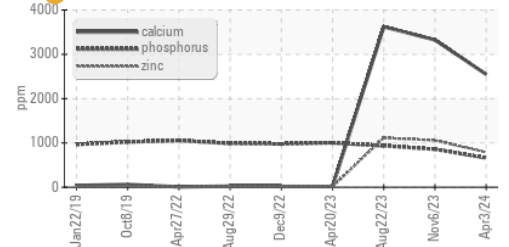
Silicon (ppm)



Viscosity @ 40°C



● Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0034661
Lab Number : 06142541
Unique Number : 10967349
Test Package : MOB 1

Received : 08 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 11 Apr 2024 - Don Baldrige

Kemp Quarries - River Valley - Arkoma
 12971 HWY 9a
 Shawnee, OK
 US 74804
 Contact:

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)

arkomashop@kempquarries.net

T:

F: