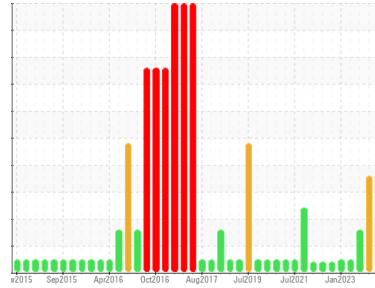


OIL ANALYSIS REPORT



Area
KEMP QUARRIES / RIVER VALLEY ARKOMA
Machine Id
WL062
Component
Front Left Final Drive
Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

Sample Rating Trend



WEAR



DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. 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

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0084426	PCA0084029	PCA0084239
Sample Date	Client Info	22 Feb 2024	23 Oct 2023	04 Aug 2023
Machine Age	hrs	26382	25859	25405
Oil Age	hrs	24267	24267	1500
Oil Changed	Client Info	Changed	Not Changd	Not Changd
Sample Status		ABNORMAL	ABNORMAL	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 >800	149	112	85
Chromium	ppm ASTM D5185m >10	3	2	2
Nickel	ppm ASTM D5185m >5	<1	<1	0
Titanium	ppm ASTM D5185m >15	<1	<1	0
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >75	2	1	2
Lead	ppm ASTM D5185m >10	▲ 12	▲ 10	▲ 11
Copper	ppm ASTM D5185m >75	▲ 85	▲ 84	▲ 90
Tin	ppm ASTM D5185m >8	5	4	5
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	0	0
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	0	0	<1
Manganese	ppm ASTM D5185m	2	<1	<1
Magnesium	ppm ASTM D5185m	8	9	7
Calcium	ppm ASTM D5185m	● 67	● 74	105
Phosphorus	ppm ASTM D5185m	● 367	● 369	389
Zinc	ppm ASTM D5185m	● 446	● 451	449
Sulfur	ppm ASTM D5185m	● 1049	● 940	1222

CONTAMINANTS

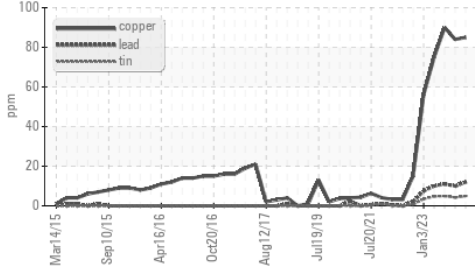
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >400	9	5	7
Sodium	ppm ASTM D5185m	1	<1	<1
Potassium	ppm ASTM D5185m >20	0	<1	0

VISUAL

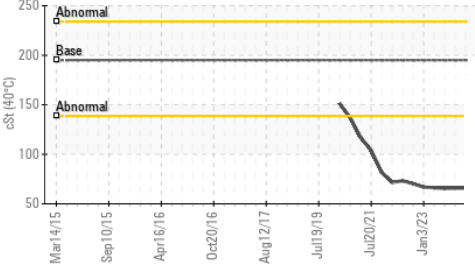
method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar *Visual NONE	NONE	NONE	NONE
Precipitate	scalar *Visual NONE	NONE	NONE	NONE
Silt	scalar *Visual NONE	LIGHT	NONE	NONE
Debris	scalar *Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar *Visual NONE	NONE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

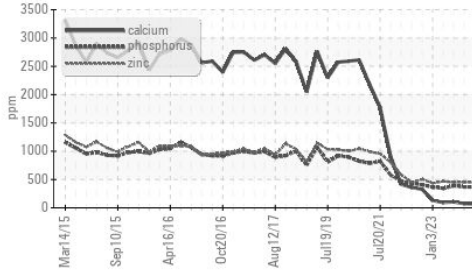
▲ Non-ferrous Metals



● Viscosity @ 40°C



● Additives



FLUID PROPERTIES

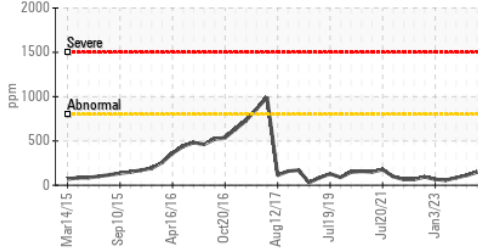
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445 195	● 65.8	● 65.9	65.6

SAMPLE IMAGES

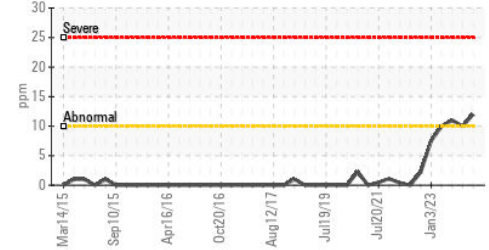
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS

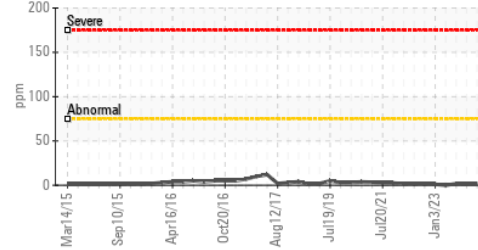
Iron (ppm)



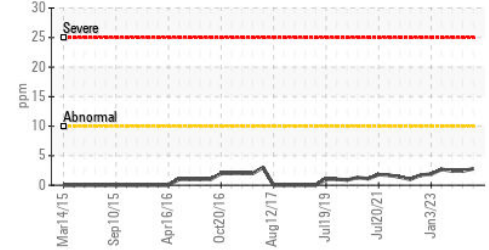
▲ Lead (ppm)



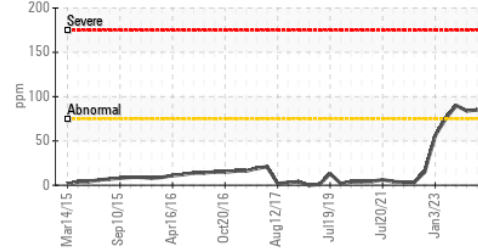
Aluminum (ppm)



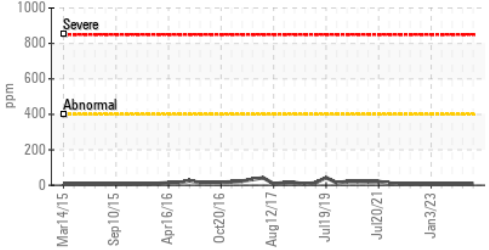
Chromium (ppm)



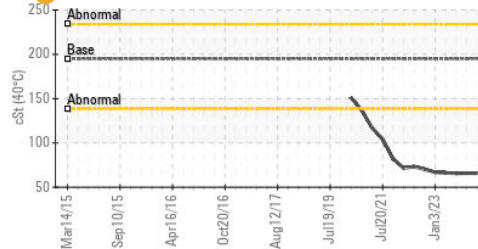
▲ Copper (ppm)



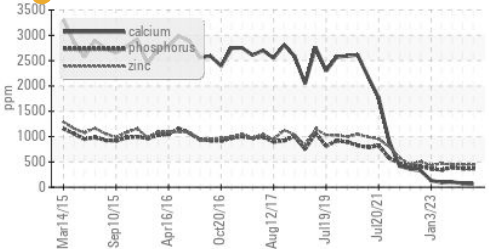
Silicon (ppm)



● Viscosity @ 40°C



● Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0084426
Lab Number : **06106818**
Unique Number : 10910315
Test Package : MOB 1

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

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: