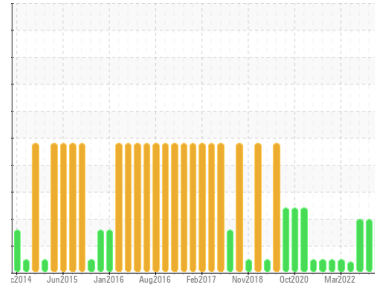


OIL ANALYSIS REPORT



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

Sample Rating Trend



VISCOSITY



DIAGNOSIS

▲ Recommendation

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. 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		PCA0084235	PCA0070337	PCA0070404
Sample Date	Client Info		04 Aug 2023	21 Apr 2023	03 Jan 2023
Machine Age	hrs	Client Info	25405	24885	24267
Oil Age	hrs	Client Info	1500	48315	21965
Oil Changed	Client Info		Not Chngd	Not Chngd	Changed
Sample Status			ATTENTION	ATTENTION	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	159	149	155
Chromium	ppm	ASTM D5185m >10	2	3	2
Nickel	ppm	ASTM D5185m >5	0	<1	0
Titanium	ppm	ASTM D5185m >15	0	<1	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >75	4	<1	4
Lead	ppm	ASTM D5185m >10	3	3	3
Copper	ppm	ASTM D5185m >75	31	25	26
Tin	ppm	ASTM D5185m >8	2	2	2
Vanadium	ppm	ASTM D5185m	<1	0	0
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	2	2	3
Manganese	ppm	ASTM D5185m	1	1	1
Magnesium	ppm	ASTM D5185m	25	28	33
Calcium	ppm	ASTM D5185m	▲ 599	▲ 628	▲ 767
Phosphorus	ppm	ASTM D5185m	▲ 509	▲ 465	▲ 534
Zinc	ppm	ASTM D5185m	▲ 595	▲ 626	▲ 615
Sulfur	ppm	ASTM D5185m	▲ 2647	▲ 2283	▲ 3451

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	28	26	32
Sodium	ppm	ASTM D5185m	2	2	3
Potassium	ppm	ASTM D5185m >20	<1	1	<1

VISUAL

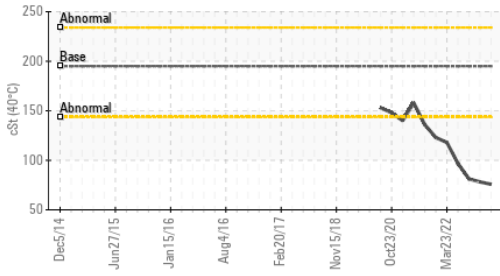
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE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

FLUID PROPERTIES

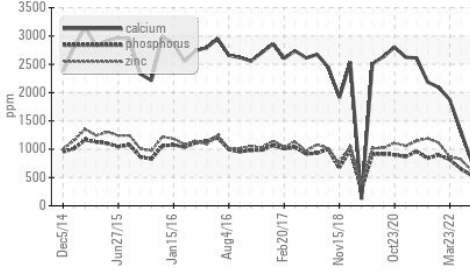
	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 195	▲ 75.8	▲ 78.2	▲ 81.2

OIL ANALYSIS REPORT

▲ Viscosity @ 40°C



▲ Additives



SAMPLE IMAGES

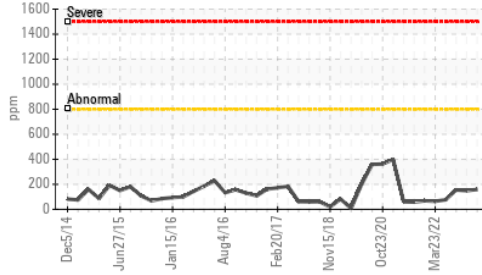
Color

Bottom

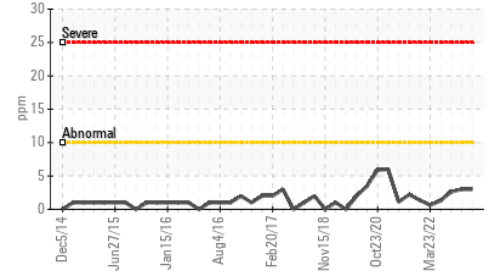
method	limit/base	current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image

GRAPHS

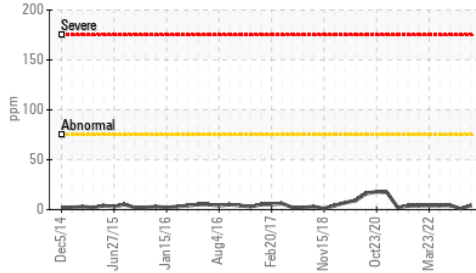
Iron (ppm)



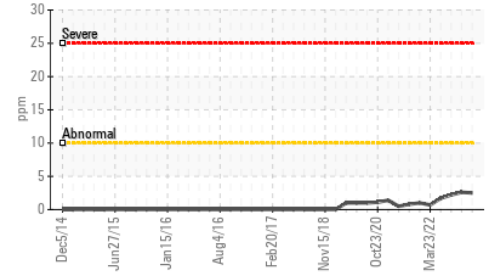
Lead (ppm)



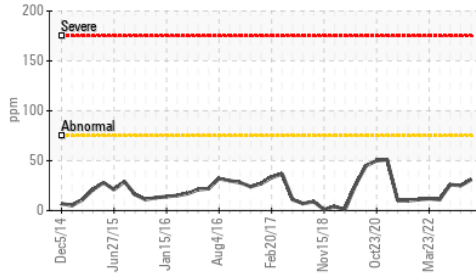
Aluminum (ppm)



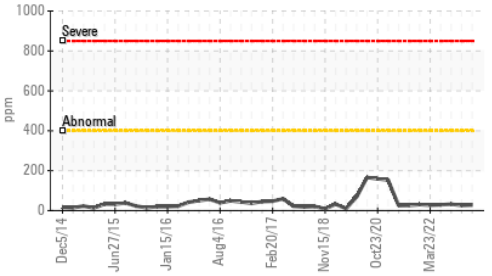
Chromium (ppm)



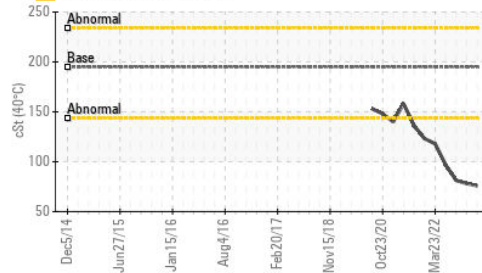
Copper (ppm)



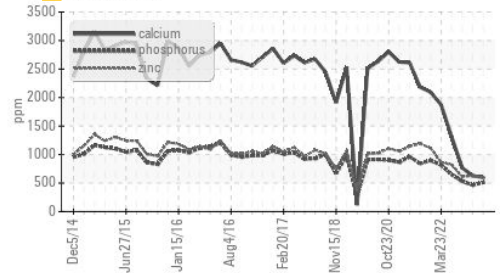
Silicon (ppm)



▲ Viscosity @ 40°C



▲ Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0084235 **Received** : 09 Aug 2023
Lab Number : 05920376 **Diagnosed** : 10 Aug 2023
Unique Number : 10592290 **Diagnostician** : Sean Felton
Test Package : MOB 1

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: