

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
KEMP QUARRIES / RIVER VALLEY ARKOMA
Machine Id
WL049
Component
Front Left Final Drive
Fluid
MOBIL MOBILUBE HD PLUS 80W90 (--- GAL)

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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0034675	PCA0070348	PCA0070375
Sample Date	Client Info		04 Aug 2023	23 Mar 2023	02 Dec 2022
Machine Age	hrs	Client Info	4581	4603	1753
Oil Age	hrs	Client Info	1000	4603	1753
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	395	384	272
Chromium	ppm	ASTM D5185m >10	1	<1	<1
Nickel	ppm	ASTM D5185m >5	<1	<1	0
Titanium	ppm	ASTM D5185m >15	<1	0	<1
Silver	ppm	ASTM D5185m >2	0	0	1
Aluminum	ppm	ASTM D5185m >75	12	10	9
Lead	ppm	ASTM D5185m >10	2	2	1
Copper	ppm	ASTM D5185m >75	43	37	27
Tin	ppm	ASTM D5185m >8	2	1	<1
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	39	30	30
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	0	<1
Manganese	ppm	ASTM D5185m	4	4	3
Magnesium	ppm	ASTM D5185m	18	17	12
Calcium	ppm	ASTM D5185m	3246	2785	2898
Phosphorus	ppm	ASTM D5185m	1096	967	1033
Zinc	ppm	ASTM D5185m	1193	1108	1137
Sulfur	ppm	ASTM D5185m	7462	6983	7036

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	86	71	55
Sodium	ppm	ASTM D5185m	2	0	0
Potassium	ppm	ASTM D5185m >20	2	<1	3

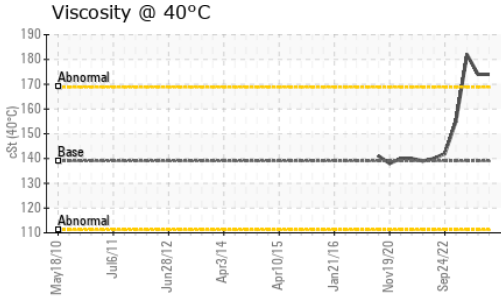
VISUAL

	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	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	0.2%
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES

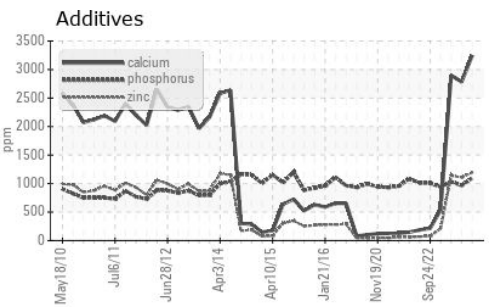
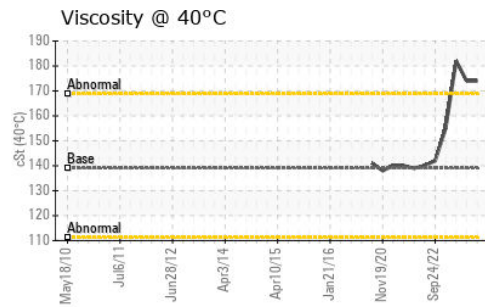
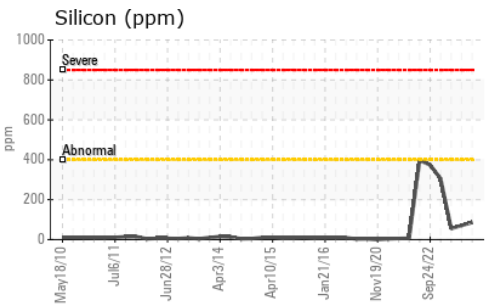
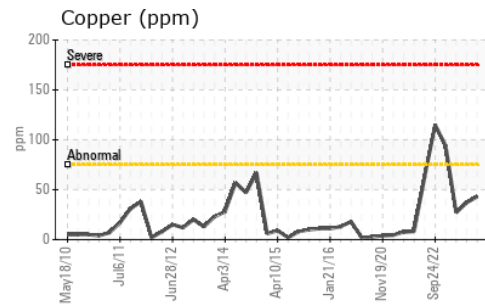
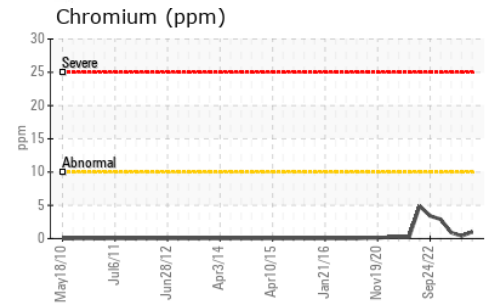
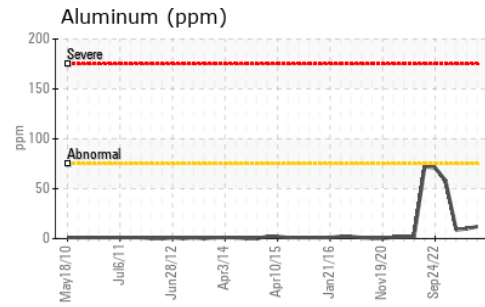
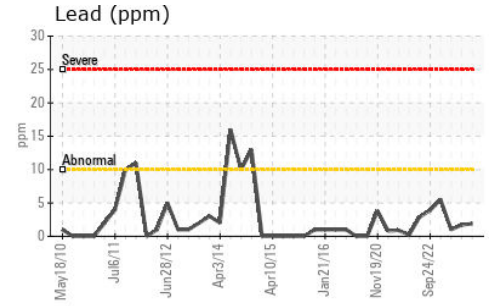
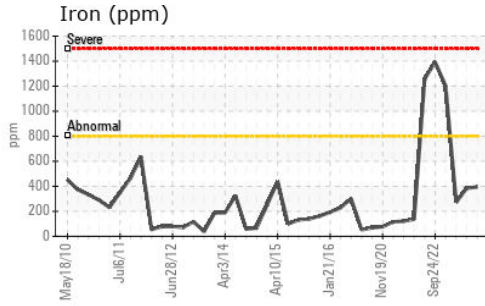
	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 139	174	174	182

OIL ANALYSIS REPORT



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. : PCA0034675 **Received** : 09 Aug 2023
Lab Number : 05920382 **Diagnosed** : 10 Aug 2023
Unique Number : 10592296 **Diagnostician** : Sean Felton
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)

Contact: arkomashop@kempquarries.net

T:

F: