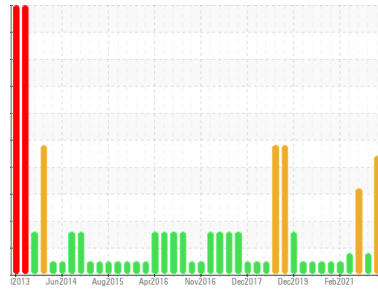


OIL ANALYSIS REPORT



Area
KEMP QUARRIES / HULBERT
 Machine Id
WL067
 Component
Rear Left Final Drive
 Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

Sample Rating Trend



WATER



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

High concentration of visible metal present. Gear wear is indicated. Bearing and/or bushing wear is indicated.

Contamination

There is a moderate concentration of water present 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		PCA0085904	PCA0086823	PCA0048714
Sample Date	Client Info		05 Apr 2024	28 Jul 2023	24 Sep 2021
Machine Age	hrs	Client Info	32148	32149	29147
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			ABNORMAL	ABNORMAL	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	▲ 691	409	53
Chromium	ppm	ASTM D5185m >10	2	<1	<1
Nickel	ppm	ASTM D5185m >5	2	<1	0
Titanium	ppm	ASTM D5185m >15	2	<1	<1
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >75	26	20	2
Lead	ppm	ASTM D5185m >10	1	2	0
Copper	ppm	ASTM D5185m >75	▲ 111	▲ 99	14
Tin	ppm	ASTM D5185m >8	1	<1	0
Antimony	ppm	ASTM D5185m >50	---	---	3
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	28
Barium	ppm	ASTM D5185m	<1	0	<1
Molybdenum	ppm	ASTM D5185m	4	3	2
Manganese	ppm	ASTM D5185m	6	4	<1
Magnesium	ppm	ASTM D5185m	60	59	28
Calcium	ppm	ASTM D5185m	2974	2726	2404
Phosphorus	ppm	ASTM D5185m	936	989	797
Zinc	ppm	ASTM D5185m	1201	1221	926
Sulfur	ppm	ASTM D5185m	5020	5310	2838

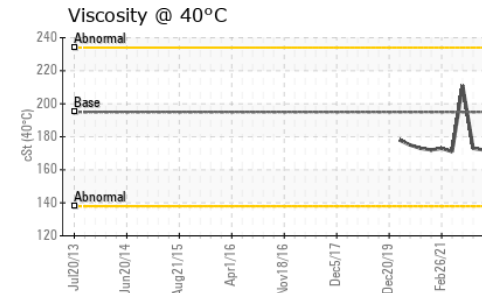
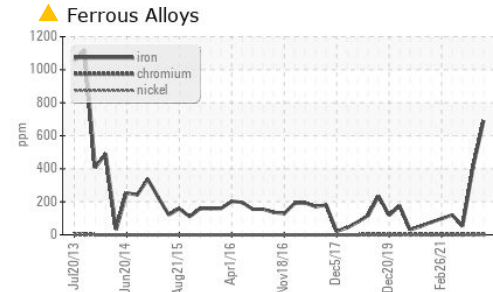
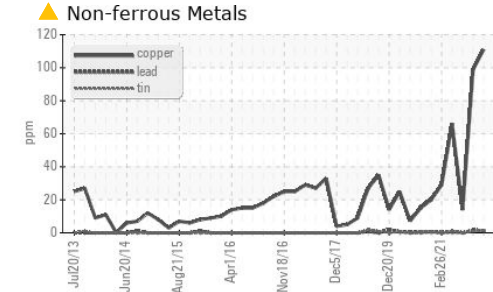
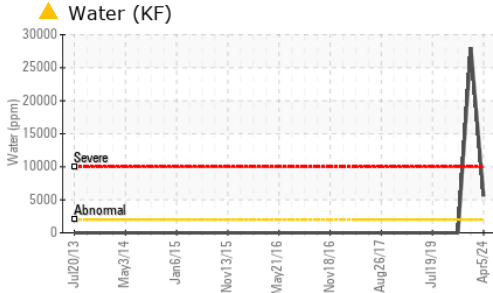
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	198	179	18
Sodium	ppm	ASTM D5185m	6	4	3
Potassium	ppm	ASTM D5185m >20	5	1	0
Water	%	ASTM D6304 >0.2	▲ 0.556	---	▲ 2.80
ppm Water	ppm	ASTM D6304 >2000	▲ 5560	---	▲ 28000

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	▲ HEAVY	NONE	VLITE
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	VLITE
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	▲ 0.2%	NEG	▲ 0.2%
Free Water	scalar	*Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

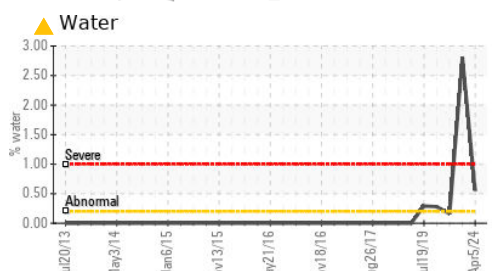
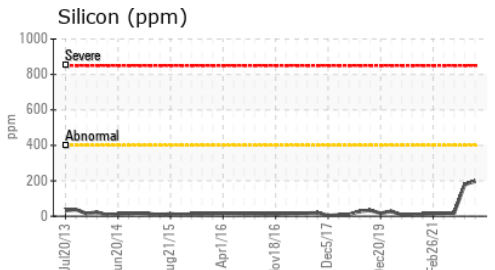
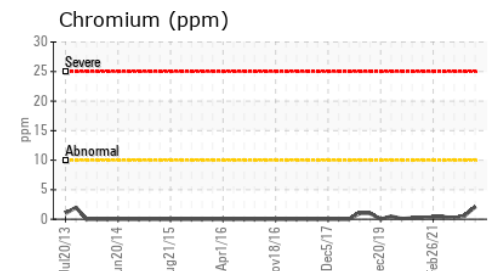
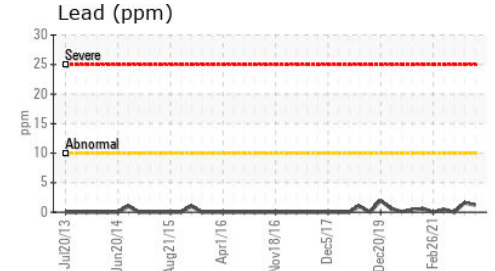
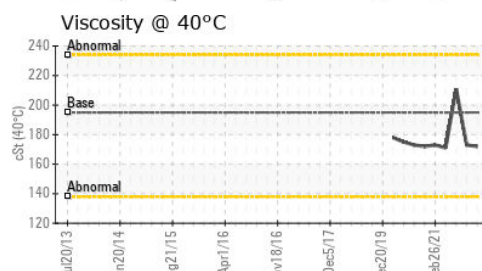
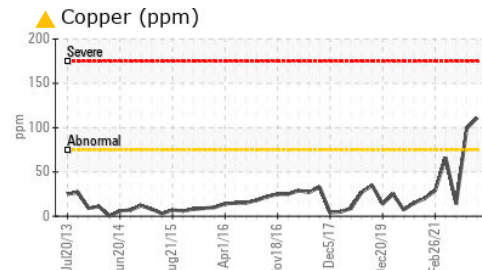
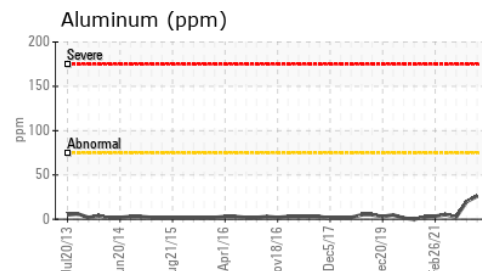
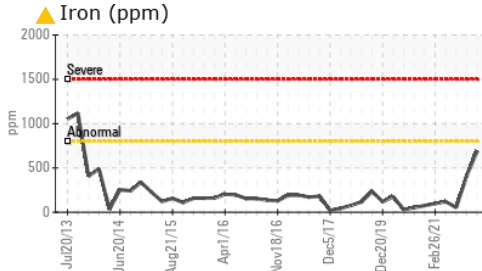


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	172	173	211

SAMPLE IMAGES		method	limit/base	current	history1	history2
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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. : PCA0085904
Lab Number : 06149730
Unique Number : 10979808
Test Package : MOB 1 (Additional Tests: KF)

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)