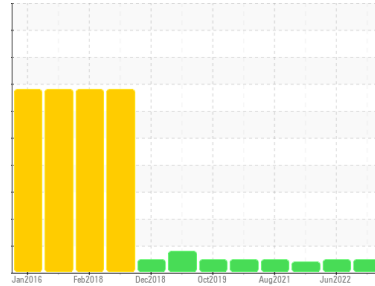


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
KEMP QUARRIES / MUSKOGEE SAND
 Machine Id
OHT086
 Component
Transmission (Auto)
 Fluid
MOBIL MOBILTRANS HD 30 (--- 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 fluid.

Fluid Condition

The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0087119	PCA0062248	PCA0034591
Sample Date	Client Info	23 Mar 2023	23 Jun 2022	09 Feb 2022
Machine Age	hrs	19795	19380	19025
Oil Age	hrs	770	355	2210
Oil Changed	Client Info	Changed	Not Changd	Changed
Sample Status		NORMAL	NORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >160	18	18	27
Chromium	ppm ASTM D5185m >5	0	<1	0
Nickel	ppm ASTM D5185m >5	<1	<1	<1
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m >5	0	<1	0
Aluminum	ppm ASTM D5185m >50	4	3	7
Lead	ppm ASTM D5185m >50	<1	2	2
Copper	ppm ASTM D5185m >225	72	56	166
Tin	ppm ASTM D5185m >10	<1	<1	<1
Antimony	ppm ASTM D5185m	---	---	<1
Vanadium	ppm ASTM D5185m	0	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	64	48	52
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	<1	<1	0
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m	2	0	1
Calcium	ppm ASTM D5185m	175	186	254
Phosphorus	ppm ASTM D5185m	252	258	270
Zinc	ppm ASTM D5185m	19	39	30
Sulfur	ppm ASTM D5185m	1789	1779	2234

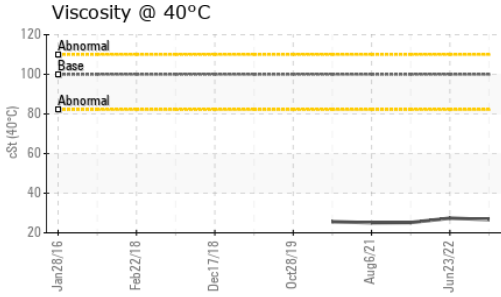
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	9	12	3
Sodium	ppm ASTM D5185m	5	10	15
Potassium	ppm ASTM D5185m >20	<1	10	<1

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	▲ MODER
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 >0.1	NEG	NEG	NEG
Free Water	scalar *Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

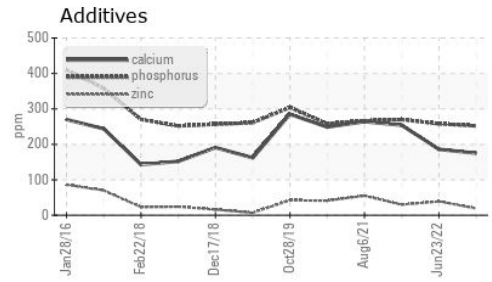
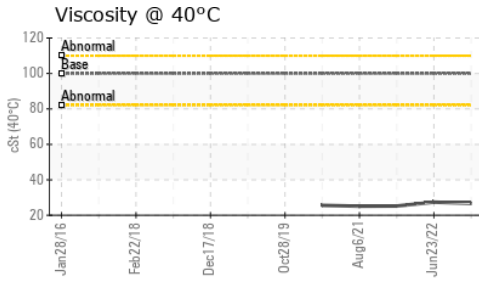
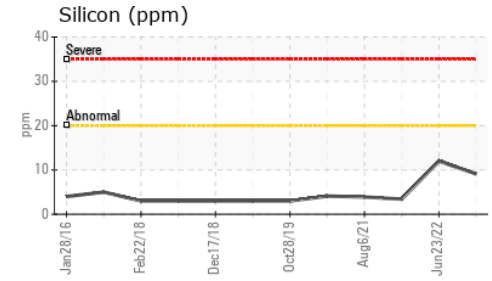
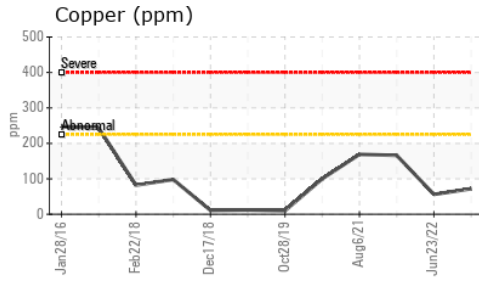
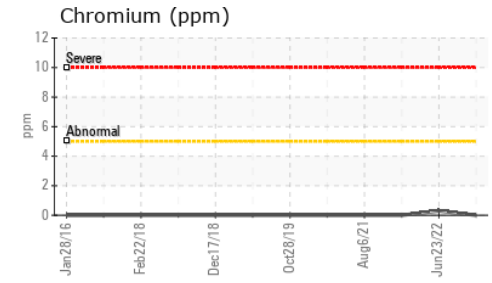
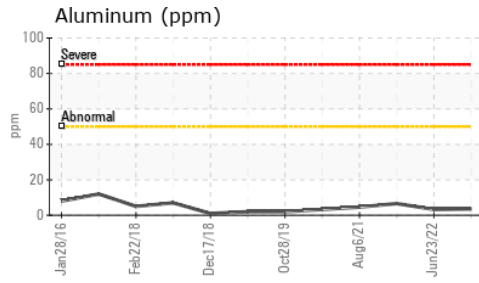
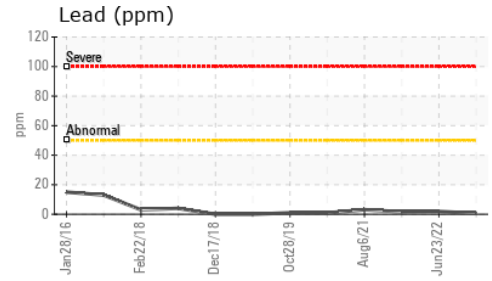
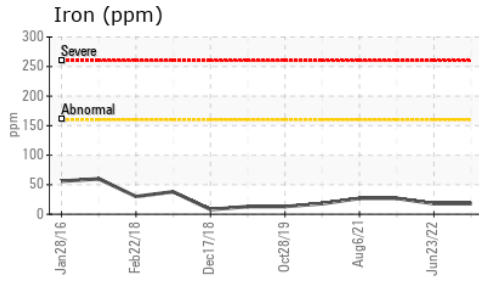


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	100	26.7	27.4	25.2

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. : PCA0087119 **Received** : 17 Jul 2023
Lab Number : 05900866 **Diagnosed** : 19 Jul 2023
Unique Number : 10562222 **Diagnostician** : Sean Felton
Test Package : MOB 1

Kemp Quarries - Muskogee Sand
 3395 W 50th St N
 Porter, OK
 US 74454
 Contact:
 muskogee@muskogeessand.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)

T:
F: