

OIL ANALYSIS REPORT







history2

nistory1



KEMP QUARRIES / MU WL042

Component **Front Differential**

MOBIL MOBILTRANS HD

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

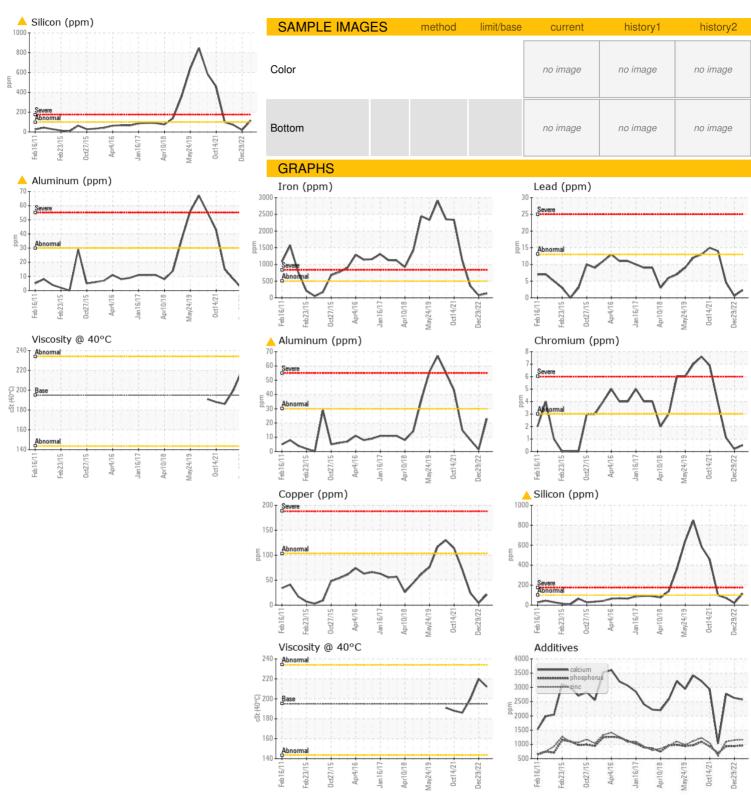
USKOGEE SAND	6/11 16/115			D-7022
SAMPLE INFORMATION	mathad	limit/booo	OLIVE ON T	b
SAMPLE INFORMATION	method	limit/base	current	n
ample Number	Client Info	PC	CA0087103	PCAC

Sample Rating Trend

Sample Number		Client Info		PCA0087103	PCA0070529	PCA0070508
Sample Date		Client Info		23 May 2023	29 Dec 2022	21 Jun 2022
Machine Age	hrs	Client Info		31670	31010	30470
Oil Age	hrs	Client Info		1720	1060	520
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	133	75	350
Chromium	ppm	ASTM D5185m	>3	<1	<1	1
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>2	2	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	<u>^</u> 23	2	8
Lead	ppm	ASTM D5185m	>13	2	<1	5
Copper	ppm	ASTM D5185m	>103	21	4	24
Tin	ppm	ASTM D5185m	>5	<1	0	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	1	1
Manganese	ppm	ASTM D5185m		2	<1	3
Magnesium	ppm	ASTM D5185m		18	16	24
Calcium	ppm	ASTM D5185m		2573	2631	2768
Phosphorus	ppm	ASTM D5185m		960	940	933
Zinc	ppm	ASTM D5185m		1168	1149	1094
Sulfur	ppm	ASTM D5185m		4656	4218	5782
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	<u> </u>	20	71
Sodium	ppm	ASTM D5185m		0	0	1
Potassium	ppm	ASTM D5185m	>20	9	2	<1
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE	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	VLITE	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	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	212	220	200



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Laboratory Sample No. Lab Number **Unique Number**

: 05900848

: PCA0087103 : 10562204 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2023 : 19 Jul 2023 Diagnosed : Sean Felton Diagnostician

Kemp Quarries - Muskogee Sand

3395 W 50th St N Porter, OK US 74454

Contact: MUSCOGEE NOTIFICATIONS muskogee@muskogeesand.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)

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