

OIL ANALYSIS REPORT

Sample Rating Trend

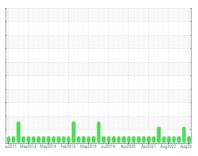


KEMP QUARRIES / MUSKOGEE SAND Machine Id WL056



Transmission (Manual)

NOT GIVEN (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid

Fluid Condition

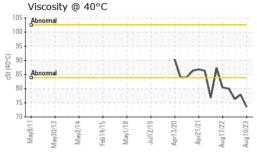
The condition of the fluid is acceptable for the time in service.

w/2011 May/2013 May/2014 Feb/2015 May/2018 Ju/2019 Apr/2020 Apr/2021 Aug/2022 Aug/20								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		PCA0087099	PCA0087160	PCA0087169		
Sample Date		Client Info		10 Aug 2023	06 Jun 2023	28 Feb 2023		
Machine Age	hrs	Client Info		33775	33310	32585		
Oil Age	hrs	Client Info		1190	725	1000		
Oil Changed		Client Info		Changed	Not Changd	Changed		
Sample Status				NORMAL	ABNORMAL	NORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>200	32	21	19		
Chromium	ppm	ASTM D5185m	>5	3	2	2		
Nickel	ppm	ASTM D5185m	>5	0	0	<1		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m	>7	0	0	0		
Aluminum	ppm	ASTM D5185m	>25	1	4	2		
Lead	ppm	ASTM D5185m	>45	<1	0	0		
Copper	ppm	ASTM D5185m	>225	21	21	24		
Tin	ppm	ASTM D5185m	>10	<1	1	0		
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		0	<1	0		
Barium	ppm	ASTM D5185m		0	0	0		
Molybdenum	ppm	ASTM D5185m		2	2	2		
Manganese	ppm	ASTM D5185m		<1	1	<1		
Magnesium	ppm	ASTM D5185m		21	25	32		
Calcium	ppm	ASTM D5185m		727	1242	1160		
Phosphorus	ppm	ASTM D5185m		535	651	599		
Zinc	ppm	ASTM D5185m		640	805	767		
Sulfur	ppm	ASTM D5185m		1733	2791	2703		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>125	11	12	6		
Sodium	ppm	ASTM D5185m		<1	1	1		
Potassium	ppm	ASTM D5185m	>20	0	2	<1		
VISUAL		method	limit/base	current	history1	history2		
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	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	>0.1	NEG	NEG	NEG		
Free Water	scalar	*Visual		NEG	NEG	NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2		

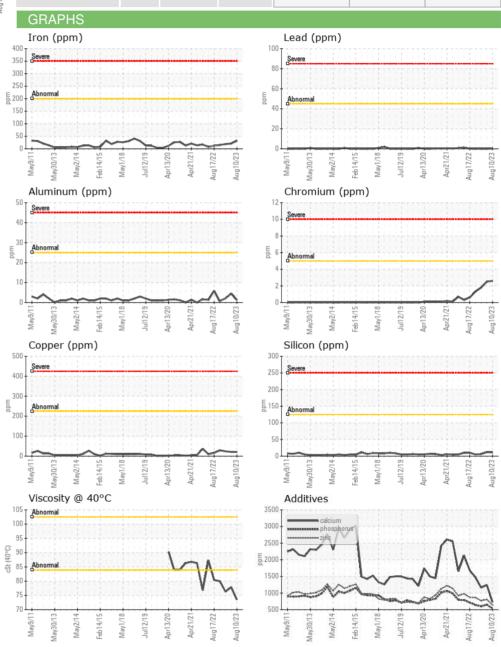
77.9



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







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0087099 : 05969959 : 10681909

Received : 04 Oct 2023 Diagnosed Diagnostician

: 05 Oct 2023 : Wes Davis

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)

Report Id: KEMPOR [WUSCAR] 05969959 (Generated: 10/12/2023 20:16:04) Rev: 1

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