

OIL ANALYSIS REPORT

Sample Rating Trend







KEMP QUARRIES / MUSKOGEE SAND [68122] WL042

Component

Rear Right Final Drive

PETRO CANADA PROD

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-2 sampled fluid)

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.

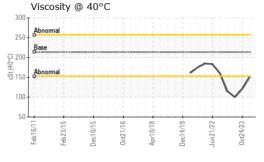
JRO TO-4 SAE 50 (GAL)						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086506	PCA0087046	PCA0084513
Sample Date		Client Info		11 Jan 2024	24 Oct 2023	11 Jul 2023
Machine Age	hrs	Client Info		33041	33553	32072
Oil Age	hrs	Client Info		33041	33553	32072
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
					,	,
Iron	ppm	ASTM D5185m	>800	47	43	86
Iron Chromium	ppm ppm	ASTM D5185m ASTM D5185m		47 0	43 <1	86 <1
	• • • • • • • • • • • • • • • • • • • •					
Chromium	ppm	ASTM D5185m	>10 >5	0	<1	<1
Chromium Nickel	ppm	ASTM D5185m ASTM D5185m	>10 >5	0	<1 0	<1 0
Chromium Nickel Titanium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>10 >5 >15 >2	0 0 <1	<1 0 <1	<1 0 <1
Chromium Nickel Titanium Silver	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10 >5 >15 >2	0 0 0 <1 0	<1 0 <1 0	<1 0 <1 0
Chromium Nickel Titanium Silver Aluminum	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10 >5 >15 >15 >2 >75 >10	0 0 0 <1 0	<1 0 <1 0 <1	<1 0 <1 0 5
Chromium Nickel Titanium Silver Aluminum Lead	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10 >5 >15 >15 >2 >75 >10	0 0 <1 0 1 <1	<1 0 <1 0 <1 0	<1 0 <1 0 5
Chromium Nickel Titanium Silver Aluminum Lead Copper	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10 >5 >15 >2 >75 >10 >75	0 0 <1 0 1 <1	<1 0 <1 0 <1 0 <1 0	<1 0 <1 0 5 1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	1	2	0
Barium	ppm	ASTM D5185m	0	0	19	0
Molybdenum	ppm	ASTM D5185m	0	20	5	11
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	9	297	47	1 45
Calcium	ppm	ASTM D5185m	3114	2431	1851	▲ 1327
Phosphorus	ppm	ASTM D5185m	1099	921	717	▲ 629
Zinc	ppm	ASTM D5185m	1245	1050	821	▲ 776
Sulfur	ppm	ASTM D5185m	7086	3688	3966	▲ 3845
CONTAMINAN	TS	method	limit/base	current	history1	history2

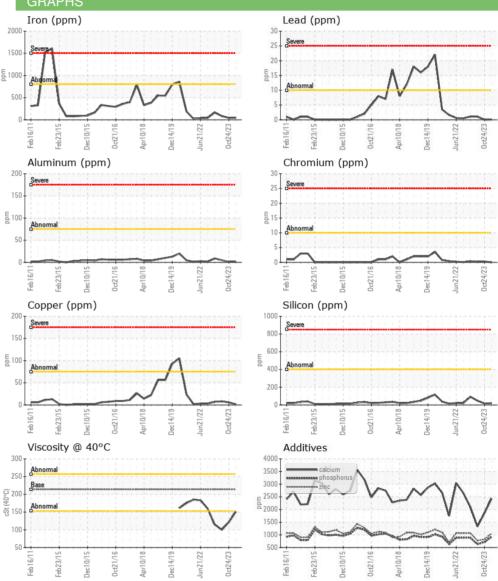
CONTAMINA	110					
Silicon	ppm	ASTM D5185m	>400	20	16	48
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	1
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



OIL ANALYSIS REPORT









Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: PCA0086506 : 06067939 : 10844616 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 22 Jan 2024 Diagnosed : 24 Jan 2024

Diagnostician : Don Baldridge

US 74454 Contact: MUSCOGEE NOTIFICATIONS

muskogee@muskogeesand.com T:

Kemp Quarries - Muskogee Sand

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)

3395 W 50th St N

Porter, OK

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