

OIL ANALYSIS REPORT









KEMP QUARRIES / MUSKOGEE SAND [67434] **WL056**

Component

Rear Right Final Drive

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: PM-4 changed fluid)

Wear

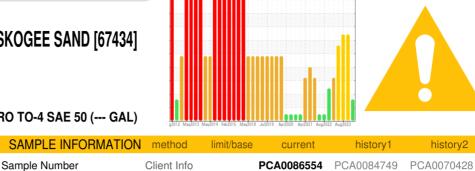
All component wear rates are normal.

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.

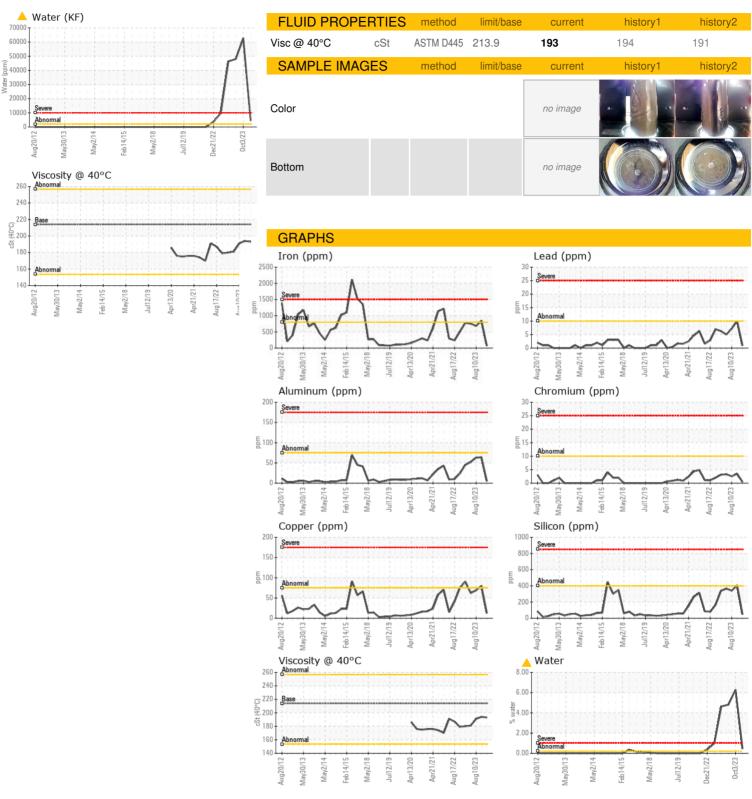


Sample Rating Trend

Sample Date		Client Info		18 Dec 2023	03 Oct 2023	10 Aug 2023
Machine Age	hrs	Client Info		34606	34177	33775
Oil Age	hrs	Client Info		34606	34177	1190
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	SEVERE	SEVERE
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	69	<u></u> 844	681
Chromium	ppm	ASTM D5185m	>10	<1	4	2
Nickel	ppm	ASTM D5185m	>5	0	2	2
Titanium	ppm	ASTM D5185m	>15	<1	3	2
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>75	5	4 64	6 3
Lead	ppm	ASTM D5185m	>10	<1	10	7
Copper	ppm	ASTM D5185m	>75	12	80	69
Tin	ppm	ASTM D5185m	>8	1	9	6
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	13	8
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	9	9
Manganese	ppm	ASTM D5185m	0	1	11	8
Magnesium	ppm	ASTM D5185m	9	28	109	100
Calcium	ppm	ASTM D5185m	3114	2954	3036	2721
Phosphorus	ppm	ASTM D5185m	1099	914	1048	932
Zinc	ppm	ASTM D5185m	1245	1115	1248	1109
Sulfur	ppm	ASTM D5185m	7086	4023	5665	4886
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	47	4 07	▲ 339
Sodium	ppm	ASTM D5185m		2	39	36
Potassium	ppm	ASTM D5185m	>20	2	31	25
Water	%	ASTM D6304	>0.2	<u> </u>	6.27	4.80
ppm Water	ppm	ASTM D6304	>2000	4410	62700	48000
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	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	HAZY	NORML	▲ LAYRD
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG



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Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: PCA0086554 : 06049675 : 10810283

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 02 Jan 2024 : 04 Jan 2024 Diagnosed

: Sean Felton Diagnostician Test Package : MOB 1 (Additional Tests: KF)

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)

Kemp Quarries - Muskogee Sand

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US 74454 Contact: MUSCOGEE NOTIFICATIONS

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T: F: