

OIL ANALYSIS REPORT









KEMP QUARRIES / MUSKOGEE SAND [67335] WL039

Component

Rear Left Final Dr

Rear Left Final Drive

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: PM-2 sampled fluid)

Wear

Gear wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

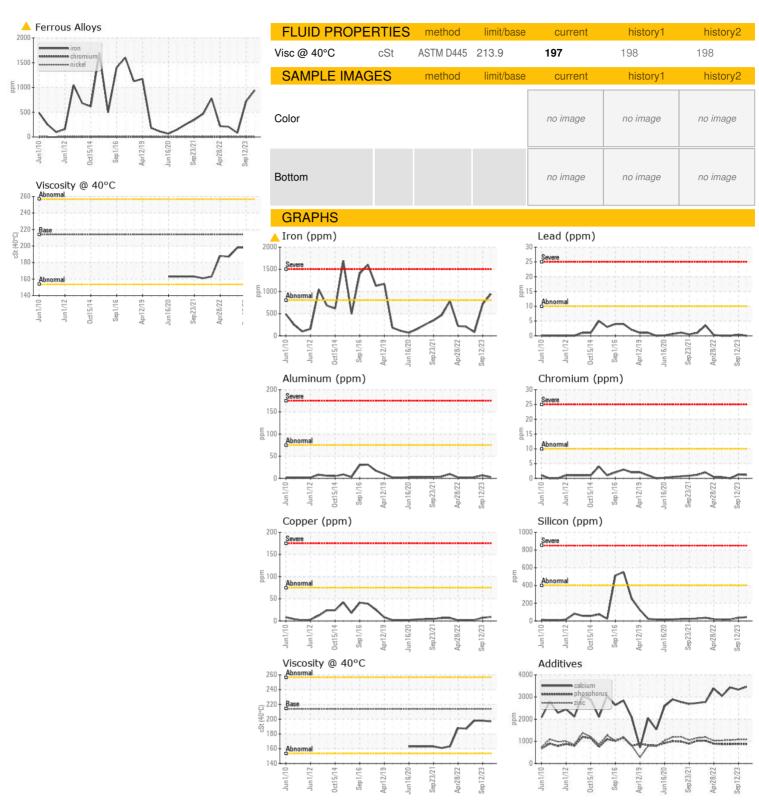
Fluid Condition

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

RO 10-4 SAE 50 (GAL)	in2010 Jun20	12 Oct2014 Sep2016 A	pr2019 Jun2020 Sep2021 Apr202	2 Sep2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0070663	PCA0086428	PCA0087127
Sample Date		Client Info		07 Dec 2023	12 Sep 2023	15 Jun 2023
Machine Age	hrs	Client Info		60261	59740	59240
Oil Age	hrs	Client Info		60261	59240	1605
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
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	943	△ 716	82
Chromium	ppm	ASTM D5185m	>10	1	1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		3	6	2
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm		>75	9	7	2
Tin	ppm	ASTM D5185m	>8	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
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ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	3	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m	0	6	6	<1
Magnesium	ppm	ASTM D5185m	9	29	23	14
Calcium	ppm	ASTM D5185m	3114	3464	3334	3429
Phosphorus	ppm	ASTM D5185m	1099	871	880	869
Zinc	ppm	ASTM D5185m	1245	1083	1079	1058
Sulfur	ppm	ASTM D5185m	7086	5434	4856	4671
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	44	33	18
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	3	2	2
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



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 06034205 : 10789434 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0070663 Recieved

Diagnosed Diagnostician To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 13 Dec 2023 : 18 Dec 2023 : Sean Felton

Kemp Quarries - Muskogee Sand 3395 W 50th St N

Porter, OK US 74454

Contact:

muskogee@muskogeesand.com

* - 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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