

OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base



KEMP QUARRIES / MUSKOGEE SAND [68980] WL056 Component

Rear Differential

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



DIAGNOSIS	

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 sampled fluid)

Wear

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.

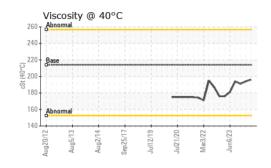
Sample Number		Client Info		PCA0086578	PCA0086553	PCA0084751
Sample Date		Client Info		01 Mar 2024	18 Dec 2023	03 Oct 2023
Machine Age	hrs	Client Info		35093	34606	34177
Oil Age	hrs	Client Info		35093	34606	34177
Oil Changed	1115	Client Info		33093 N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	SEVERE
CONTAMINAT		method	limit/base		history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base		history1	history2
Iron	ppm	ASTM D5185m	>500	45	66	A 821
Chromium	ppm	ASTM D5185m		0	<1	A 3
Nickel	ppm	ASTM D5185m	>3	0	0	2
Titanium	ppm	ASTM D5185m		0	<1	3
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m		2	5	64
Lead	ppm	ASTM D5185m	>13	0	<1	10
Copper	ppm	ASTM D5185m		5	12	81
Tin	ppm	ASTM D5185m	>5	<1	1	9
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	1	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	9
Manganese	ppm	ASTM D5185m	0	0	1	10
Magnesium	ppm	ASTM D5185m	9	0	29	115
Calcium	ppm	ASTM D5185m	3114	2610	2964	3004
Phosphorus	ppm	ASTM D5185m	1099	906	921	1038
Zinc	ppm	ASTM D5185m	1245	996	1116	1237
Sulfur	ppm	ASTM D5185m	7086	4736	4028	5519
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	28	47	4 02
Sodium	ppm	ASTM D5185m		3	2	38
Potassium	ppm	ASTM D5185m	>20	0	2	30
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	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	0.2%	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
:33:46) Rev: 1						Submitted By:

Report Id: KEMPOR [WUSCAR] 06115476 (Generated: 03/13/2024 19

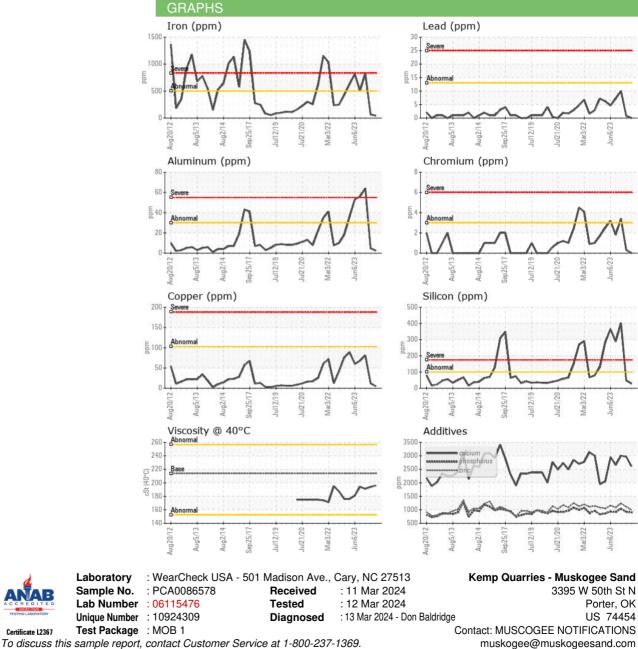
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FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	196	194	191
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color				no image	no image	
Bottom				no image	no image	



* - 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)

Certificate L2367

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