

# **OIL ANALYSIS REPORT**

Potassium

## KEMP QUARRIES / MUSKOGEE SAND [67431] **WL001** 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-2 sampled fluid )

#### Wear

All component wear rates are normal.

#### Contamination

The water content is negligible. 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 INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086548	PCA0037715	PCA0070489
Sample Date		Client Info		29 Feb 2024	06 Sep 2023	08 Jul 2022
Machine Age	hrs	Client Info		3895	3441	2975
Oil Age	hrs	Client Info		3895	3441	613
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	62	60	<b>A</b> 731
Chromium	ppm	ASTM D5185m	>3	0	<1	2
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	2	8
Lead	ppm	ASTM D5185m	>13	0	0	<1
Copper	ppm	ASTM D5185m	>103	<1	<1	15
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	1	2
Barium	ppm	ASTM D5185m	0	0	5	103
Molybdenum	ppm	ASTM D5185m	0	<1	0	<1
Manganese	ppm	ASTM D5185m	0	<1	<1	7

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Magnesium	ppm	ASTM D5185m	9	0	21	16
Calcium	ppm	ASTM D5185m	3114	2776	3504	2986
Phosphorus	ppm	ASTM D5185m	1099	793	969	1038
Zinc	ppm	ASTM D5185m	1245	852	1193	1164
Sulfur	ppm	ASTM D5185m	7086	6900	9236	10449
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	19	20	39
Sodium	ppm	ASTM D5185m		2	1	7

0

0

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	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	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	Sublemented By:

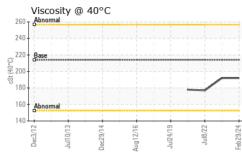
ASTM D5185m >20

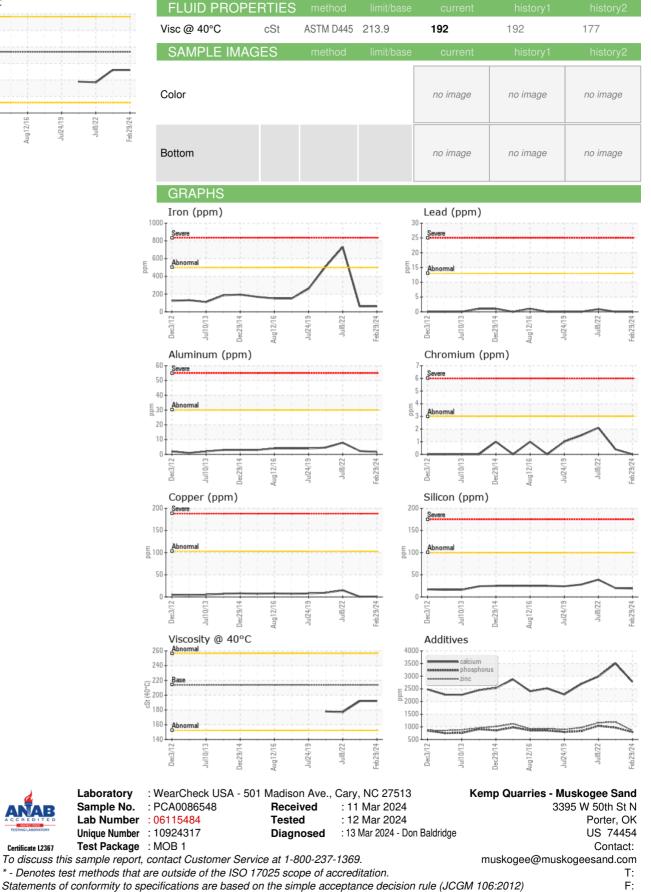
ppm

8



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Certificate L2367