

# **OIL ANALYSIS REPORT**

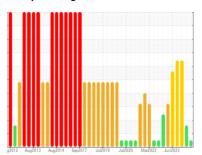


# KEMP QUARRIES / MUSKOGEE SAND [68980] WL056

Component

**Rear Right Final Drive** 

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



Sample Rating Trend



**NORMAL** 

### DIAGNOSIS

#### Recommendation

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

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

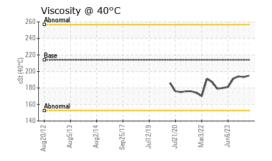
#### **Fluid Condition**

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

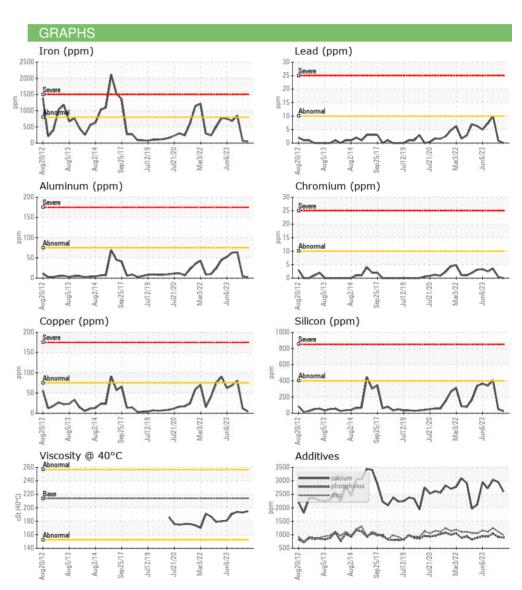
		g2012 Aug20	13 Aug2014 Sep2017	Jul2019 Jul2020 Mar2022 J	lun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086579	PCA0086554	PCA0084749
Sample Date		Client Info		01 Mar 2024	18 Dec 2023	03 Oct 2023
Machine Age	hrs	Client Info		35093	34606	34177
Oil Age	hrs	Client Info		35093	34606	34177
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water	ION		>0.2	NEG	NEG	NEG
	C	method				
WEAR METAL	5		limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	46	69	<u> </u>
Chromium	ppm	ASTM D5185m	>10	0	<1	4
Nickel	ppm	ASTM D5185m	>5	0	0	2
Titanium	ppm	ASTM D5185m	>15	0	<1	3
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>75	2	5	64
Lead	ppm	ASTM D5185m	>10	0	<1	10
Copper	ppm	ASTM D5185m	>75	4	12	80
Tin	ppm	ASTM D5185m	>8	<1	1	9
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	2	13
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	1	0	9
Manganese	ppm	ASTM D5185m	0	0	1	11
Magnesium	ppm	ASTM D5185m	9	0	28	109
Calcium	ppm	ASTM D5185m	3114	2592	2954	3036
Phosphorus	ppm	ASTM D5185m	1099	902	914	1048
Zinc	ppm	ASTM D5185m	1245	984	1115	1248
Sulfur	ppm	ASTM D5185m	7086	4765	4023	5665
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	26	47	<b>4</b> 07
Sodium	ppm	ASTM D5185m		3	2	39
Potassium	ppm	ASTM D5185m	>20	0	2	31
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	>0.2	NEG	0.2%	▲ 0.2%
Free Water	scalar	*Visual	- 0.2	NEG	NEG	NEG
0.04.00\ D4	Julian	vioual		IILG	INLU	0 1 111 1 0



## **OIL ANALYSIS REPORT**



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	195	193	194
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color				no image	no image	
Bottom				no image	no image	







Certificate L2367

Laboratory Sample No.

Lab Number : 06115477 Unique Number : 10924310 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0086579 Received : 11 Mar 2024

**Tested** : 13 Mar 2024 - Don Baldridge Diagnosed

: 12 Mar 2024

Kemp Quarries - Muskogee Sand 3395 W 50th St N

Porter, OK US 74454

Contact: MUSCOGEE NOTIFICATIONS

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

muskogee@muskogeesand.com T:

\* - 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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