

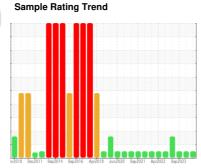
OIL ANALYSIS REPORT



KEMP QUARRIES / MUSKOGEE SAND [68772] **WL039**

Component **Front Right Final Drive**

PETRO CANADA PRODURO TO-4 SAE





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-3 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.

JRO TO-4 SAE 50 (GAL)						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109005	PCA0070646	PCA0086430
Sample Date		Client Info		13 Mar 2024	05 Dec 2023	12 Sep 2023
Machine Age	hrs	Client Info		60751	60261	59240
Oil Age	hrs	Client Info		60751	60261	59740
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	462	462	293
Chromium	ppm	ASTM D5185m	>10	1	<1	1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	6	3	7
Lead	ppm	ASTM D5185m	>10	5	4	4
Copper	ppm	ASTM D5185m	>75	22	20	15
Tin	ppm	ASTM D5185m	>8	2	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	11	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	2	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	<1	1
Manganese	ppm	ASTM D5185m	0	4	3	3
Magnesium	ppm	ASTM D5185m	9	12	8	9
Calcium	ppm	ASTM D5185m		3214	3043	2956
Phosphorus	ppm	ASTM D5185m	1099	974	854	880
Zinc	ppm		1245	998	926	985
Sulfur	ppm	ASTM D5185m	7086	5757	5575	5082
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	42	41	38
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	2	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	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
A		43.0	110011		NOBAL	NODAN

NORML

NORML

>0.2

*Visual

*Visual

scalar *Visual

scalar *Visual

scalar

scalar

NORML

NORML

NEG

NEG

NORML

NORML

NEG

NEG

Appearance

Free Water

Emulsified Water

Odor

NORML

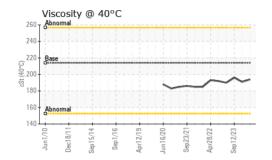
NORML

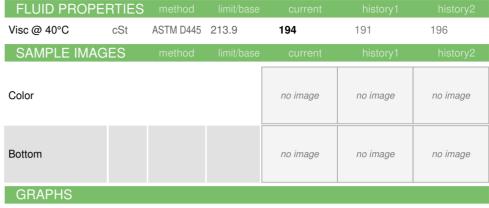
NEG

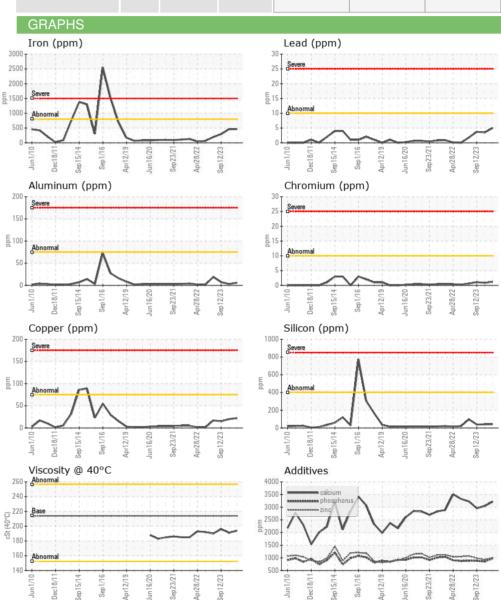
NEG



OIL ANALYSIS REPORT









Certificate L2367

Laboratory Sample No.

Lab Number : 06128243

: PCA0109005 Unique Number : 10942394 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Mar 2024 : 26 Mar 2024 **Tested**

: 28 Mar 2024 - Jonathan Hester Diagnosed

Kemp Quarries - Muskogee Sand

3395 W 50th St N Porter, OK

US 74454 Contact:

T:

F:

muskogee@muskogeesand.com

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)