

OIL ANALYSIS REPORT

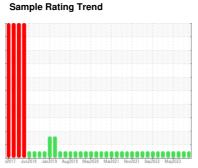


KEMP QUARRIES / MUSKOGEE SAND [68593] WL109

Component

Rear Right Final Drive

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)

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.

12017 Jun 2018 Jan 2019 May 2020 May 2021 Sup 2022 May 2023 May 2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086513	PCA0070579	PCA008642
Sample Date		Client Info		05 Feb 2024	22 Nov 2023	11 Sep 2023
Machine Age	hrs	Client Info		50702	50215	49706
Oil Age	hrs	Client Info		50702	50215	49706
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	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	155	33	67
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	3	1	3
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	2	2	1
Tin	ppm	ASTM D5185m	>8	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	0	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	9	14	12	13
Calcium	ppm	ASTM D5185m	3114	3096	3324	2962
Phosphorus	ppm	ASTM D5185m	1099	1111	1125	967
Zinc	ppm	ASTM D5185m	1245	1317	1302	1177
Sulfur	ppm	ASTM D5185m	7086	5183	5228	4662
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	28	17	14
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	2	1
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

NEG

NEG

NEG

NEG

>0.2

Emulsified Water

Free Water

scalar *Visual

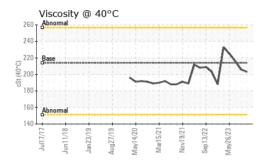
scalar *Visual

NEG

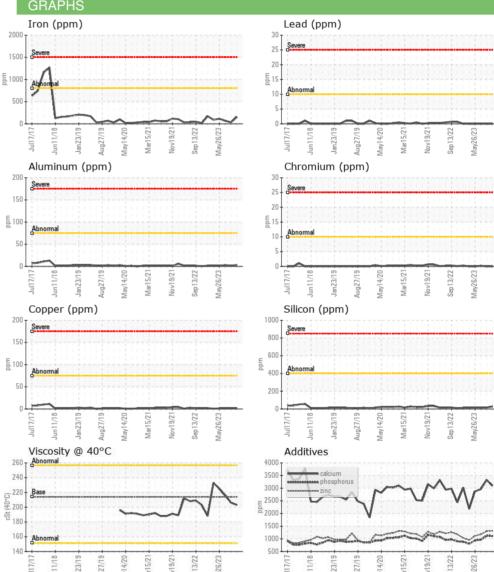
NEG



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Laboratory Sample No.

Lab Number : 06088389 Unique Number : 10875834

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0086513 Received : 13 Feb 2024 : 14 Feb 2024

Tested Diagnosed

: 15 Feb 2024 - Sean Felton

Kemp Quarries - Muskogee Sand 3395 W 50th St N

Porter, OK US 74454 Contact:

Test Package : MOB 1 Certificate L2367 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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