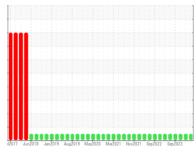


OIL ANALYSIS REPORT

KEMP QUARRIES / MUSKOGEE SAND [69617] **WL109**

Front Differential

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



Sample Rating Trend



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

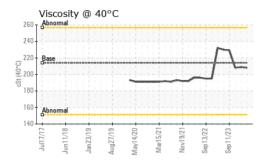
The condition of the oil is acceptable for the time in service.

(GAL)		il2017 Jun201	8 Jan2019 Aug2019 May.	2020 Mar2021 Nov2021 Sep2022	Sep2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109271	PCA0086514	PCA0070577
Sample Date		Client Info		04 Apr 2024	05 Feb 2024	22 Nov 2023
Machine Age	hrs	Client Info		58740	50702	50215
Oil Age	hrs	Client Info		51204	50702	50215
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	32	20	25
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	1	1
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	2	0	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	1	0	0
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	0	1	0	0
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	9	14	14	12
Calcium	ppm	ASTM D5185m	3114	3262	3136	3254
Phosphorus	ppm	ASTM D5185m	1099	1068	1174	1104
Zinc	ppm	ASTM D5185m	1245	1312	1378	1281
Sulfur	ppm	ASTM D5185m	7086	5439	5395	5253
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	17	13	11
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m	>20	2	0	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
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
E \M/-+		*\ /! I		NEO	NEO	NEO

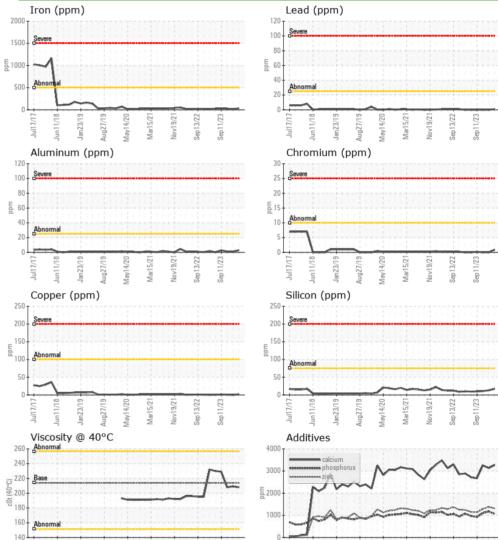
scalar *Visual



OIL ANALYSIS REPORT









Certificate 12367

Report Id: KEMPOR [WUSCAR] 06149079 (Generated: 04/17/2024 14:12:56) Rev: 1

Laboratory : PCA0109271 Sample No.

Lab Number : 06149079 Unique Number : 10979157

Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 15 Apr 2024 **Tested** : 16 Apr 2024

Diagnosed : 17 Apr 2024 - Sean Felton Kemp Quarries - Muskogee Sand 3395 W 50th St N Porter, OK

muskogee@muskogeesand.com

US 74454 Contact:

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)

Submitted By:

T:

F: