

OIL ANALYSIS REPORT



Sample Rating Trend

WATER



0

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KEMP QUARRIES / MUSKOGEE SAND [66574] **WL042**

Component

Front Right Final Drive

PETRO CANADA PRODU

Vanadium

Cadmium

ppm

ppm

ASTM D5185m

ASTM D5185m

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 sampled fluid. Axle was replaced. Oil was contaminated, changed)

Wear

Gear wear is indicated.

Contamination

There is a light concentration of water present in the

Fluid Condition

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

ve URO TO-4 SAE 50 (GAL)					
SAMPLE INFORM	•	method	Junžois Febžois ocižoi	6 Dec2017 Nov2018 Apr2020 Jun20	history1	history2
Sample Number	WIATION	Client Info	iiiiiii basc	PCA0087043	PCA0084512	PCA0087106
Sample Date Machine Age	hrs	Client Info		24 Oct 2023 33553	11 Jul 2023 32072	23 May 2023 31670
Oil Age Oil Changed	hrs	Client Info		33553 Changed	32072 Changed	1720 Not Changd
Sample Status WEAR METALS	S	method	limit/base	ABNORMAL	ABNORMAL history1	NORMAL history2
Iron Chromium	ppm	ASTM D5185m ASTM D5185m	>800 >10	▲ 903 2	466	139
Nickel Titanium	ppm	ASTM D5185m ASTM D5185m	>5 >15	1	2	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum Lead	ppm	ASTM D5185m ASTM D5185m	>75 >10	8 0	34 1 0	19 2
Copper Tin	ppm ppm	ASTM D5185m ASTM D5185m	>75 >8	14 <1	▲ 106▲ 6	18 <1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	2	<1
Barium	ppm	ASTM D5185m	0	19	0	0
Molybdenum	ppm	ASTM D5185m	0	2	2	2
Manganese	ppm	ASTM D5185m	0	8	5	1
Magnesium	ppm	ASTM D5185m	9	24	25	19
Calcium	ppm	ASTM D5185m	3114	3254	2604	2620
Phosphorus	ppm	ASTM D5185m	1099	986	959	962
Zinc	ppm	ASTM D5185m	1245	1174	1160	1149
Sulfur	ppm	ASTM D5185m	7086	7765	4532	4252
CONTAMINANTS		method	limit/base	current	history1	history2

0

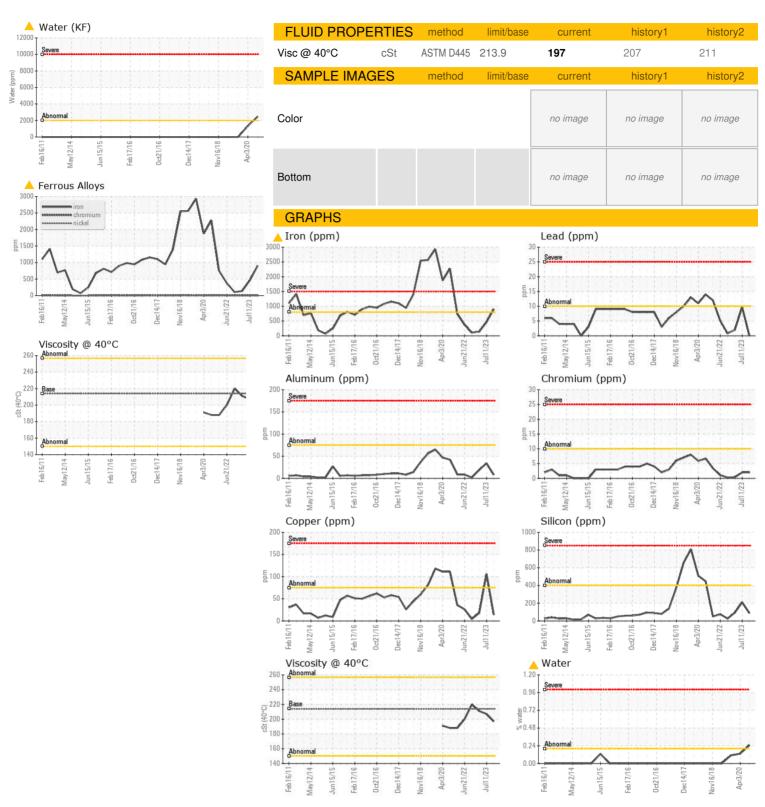
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CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	88	210	94
Sodium	ppm	ASTM D5185m		4	2	0
Potassium	ppm	ASTM D5185m	>20	3	12	7
Water	%	ASTM D6304	>0.2	<u>0.248</u>		
ppm Water	ppm	ASTM D6304	>2000	<u>4</u> 2480		
VISUAL		method	limit/base	current	history1	history2

VICONE		mounou	III III Daoo	oarront	Thotoly I	inotory =
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	>0.2	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



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Laboratory Sample No. Lab Number Unique Number

: 05993856 : 10722216

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0087043

Received : 30 Oct 2023 Diagnosed Diagnostician

: 01 Nov 2023 : Sean Felton

Test Package : MOB 1 (Additional Tests: KF) 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)

Kemp Quarries - Muskogee Sand

3395 W 50th St N Porter, OK US 74454

Contact: MUSCOGEE NOTIFICATIONS

muskogee@muskogeesand.com

T: F:

Report Id: KEMPOR [WUSCAR] 05993856 (Generated: 11/01/2023 10:37:43) Rev: 1