

OIL ANALYSIS REPORT



WEAR





KEMP QUARRIES / MUSK **WL039**

Component

Rear Right Final Drive

PETRO CANADA PRODURO

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: PM-3 sampled fluid)

Gear wear is indicated. All other 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.

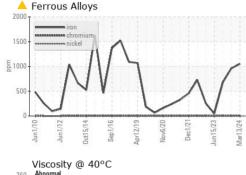
SKOGEE SAND [68772]	m2010 Jun2012	0:2014 Sap2016 A	prž019 Novž020 Dec2021 Jun.	2023 Mar20.	
SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0108987	PCA0070664	PCA0086429
Sample Date	Client Info		13 Mar 2024	05 Dec 2023	12 Sep 2023

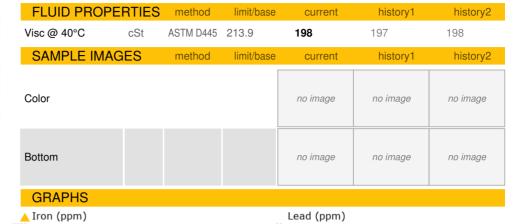
Sample Rating Trend

Sample Number		Client Info		PCA0108987	PCA0070664	PCA0086429
Sample Date		Client Info		13 Mar 2024	05 Dec 2023	12 Sep 2023
Machine Age	hrs	Client Info		60751	60261	59740
Oil Age	hrs	Client Info		60751	60261	59740
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	TION	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	<u> </u>	963	▲ 682
Chromium	ppm	ASTM D5185m	>10	2	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	2	6
Lead	ppm	ASTM D5185m	>10	1	0	<1
Copper	ppm	ASTM D5185m	>75	10	9	7
Tin	ppm	ASTM D5185m	>8	1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	3	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m	0	8	7	5
Magnesium	ppm	ASTM D5185m	9	38	29	22
Calcium	ppm	ASTM D5185m	3114	3671	3537	3319
Phosphorus	ppm	ASTM D5185m	1099	1005	898	878
Zinc	ppm	ASTM D5185m	1245	1187	1109	1073
Sulfur	ppm	ASTM D5185m	7086	5692	5236	4830
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	50	43	32
Sodium	ppm	ASTM D5185m		3	0	<1
Potassium	ppm	ASTM D5185m	>20	2	3	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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
·29·08) Rev: 1						Submitted By

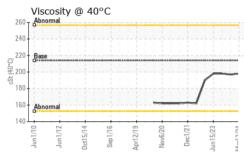


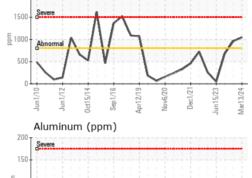
OIL ANALYSIS REPORT

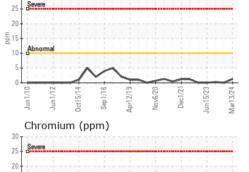


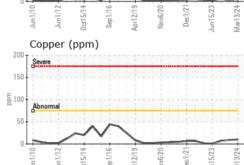


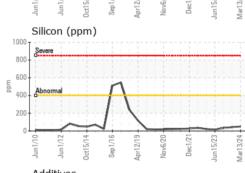
E 15

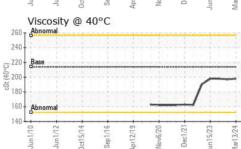


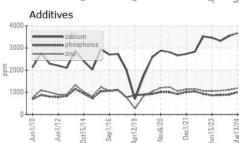














Certificate L2367

Laboratory Sample No.

: PCA0108987 Lab Number : 06128244 Unique Number: 10942395 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:

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

muskogee@muskogeesand.com

* - 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)