

## **OIL ANALYSIS REPORT**

# Sample Rating Trend **WEAR**

DIAGNOSIS

### KEMP QUARRIES / MUSKOGEE SAND [66574] WL042 Component

**Front Left Final Drive** 

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

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0087044	PCA0084621	PCA0087105
he oil change at the time of sampling has been	Sample Date		Client Info		24 Oct 2023	11 Jul 2023	23 May 2023
oted. No corrective action is recommended at this	Machine Age	hrs	Client Info		33553	32072	31670
ne. Resample at the next service interval to	Oil Age	hrs	Client Info		33553	32072	1720
onitor. ( Customer Sample Comment: PM-1 Impled fluid. Axle was replaced, fluid was	Oil Changed		Client Info		Changed	Changed	Not Changd
ontaminated, changed oil )	Sample Status				ABNORMAL	ABNORMAL	NORMAL
Wear		S	method	limit/base	current	history1	history2
ear wear is indicated.	Iron	ppm	ASTM D5185m		<b>857</b>	448	123
ontamination	Chromium	ppm	ASTM D5185m		2	2	<1
ere is no indication of any contamination in the	Nickel	ppm	ASTM D5185m		1	1	<1
	Titanium	ppm	ASTM D5185m		1	2	1
uid Condition	Silver		ASTM D5185m		0	0	0
e condition of the oil is acceptable for the time in	Aluminum	ppm	ASTM D5185m		8	33	18
rvice.	Lead	ppm	ASTM D5185m		0	3	2
	Copper	ppm	ASTM D5185m		14	▲ 9 ▲ 102	17
	Tin	ppm	ASTM D5185m		14 <1	▲ 102 ▲ 6	<1
	Vanadium	ppm	ASTM D5185m	20	< 1	0	0
	Cadmium	ppm	ASTM D5185m		۰ <1	0	0
		ppm				-	
	ADDITIVES		method	limit/base		history1	history2
	Boron	ppm	ASTM D5185m		4	2	<1
	Barium	ppm	ASTM D5185m		19	0	0
	Molybdenum	ppm	ASTM D5185m		2	2	2
	Manganese	ppm	ASTM D5185m		7	5	1
	Magnesium	ppm	ASTM D5185m		26	25	20
	Calcium	ppm	ASTM D5185m		3160	2594	2617
	Phosphorus	ppm	ASTM D5185m		973	941	963
	Zinc	ppm	ASTM D5185m		1154	1151	1157
	Sulfur	ppm	ASTM D5185m		7995	4785	4615
	CONTAMINA	NIS	method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>400	85	197	91
	Sodium	ppm	ASTM D5185m		4	2	0
	Potassium	ppm	ASTM D5185m	>20	3	11	7
	VISUAL		method	limit/base		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
		scalar	*Visual	>0.2	NEG	NEG	NEG
	Emulsified Water						
	Emulsified Water Free Water	scalar	*Visual		NEG	NEG	NEG
			*Visual method	limit/base		NEG history1	
	Free Water						NEG history2 212

#### Contamination

Fluid

#### Fluid Condition



160 Ab

140

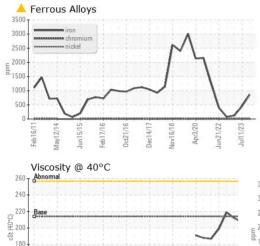
eb 1

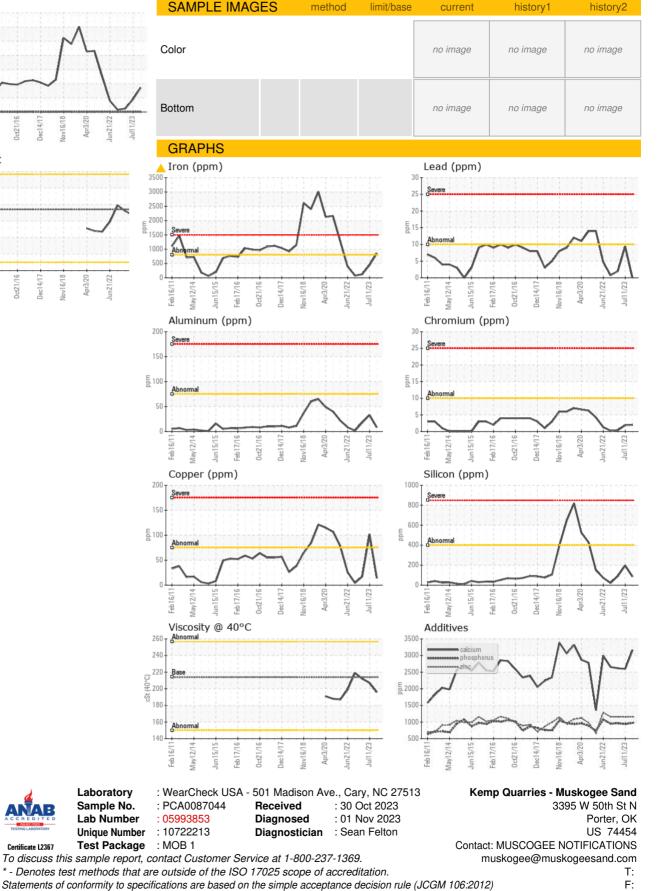
un15/15

ah17/16

Mav12/14

## **OIL ANALYSIS REPORT**





Certificate L2367