

## **OIL ANALYSIS REPORT**



KEMP QUARRIES / BCS - MILL CREEK [68018] WL087 Component

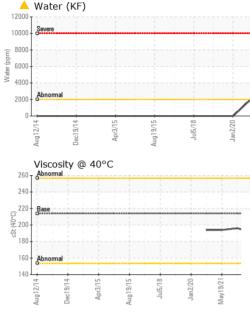
**Rear Right Final Drive** Fluid

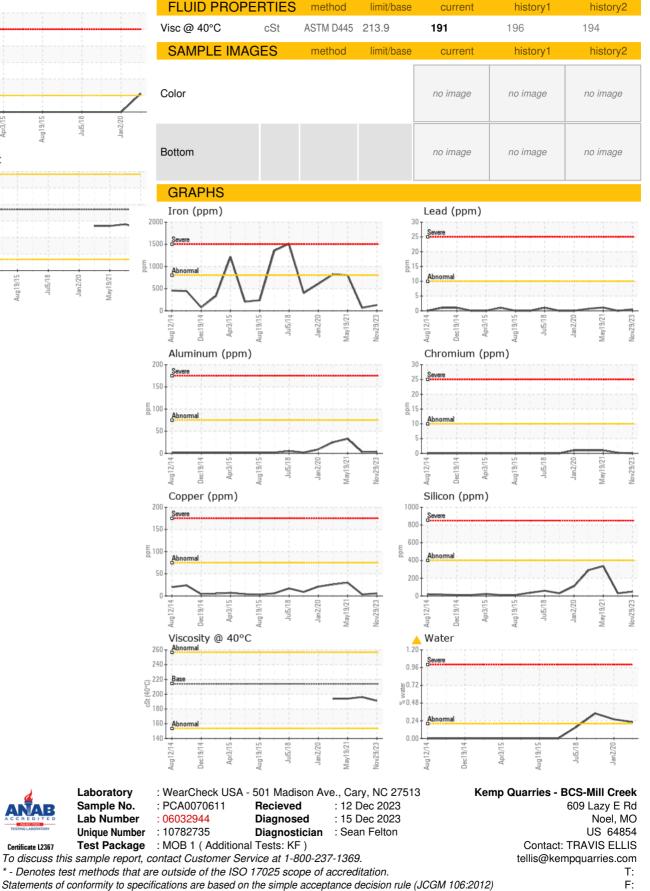
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		PCA0070611	PCA0048566	PCA0037965
No corrective action is recommended at this time.	Sample Date		Client Info		29 Nov 2023	25 Oct 2021	19 May 2021
Resample at the next service interval to monitor. (	Machine Age	hrs	Client Info		16002	15752	15377
Customer Sample Comment: PM-2 sampled fluid )	Oil Age	hrs	Client Info		16002	0	0
Wear	Oil Changed		Client Info		N/A	Not Changd	Changed
All component wear rates are normal.	Sample Status				ABNORMAL	NORMAL	SEVERE
Contamination There is a light concentration of water present in the	WEAR METALS	;	method	limit/base		history1	history2
oil.	Iron	ppm	ASTM D5185m	>800	130	66	<b>a</b> 804
Fluid Condition	Chromium	ppm	ASTM D5185m	>10	0	<1	1
The condition of the oil is acceptable for the time in	Nickel	ppm	ASTM D5185m	>5	0	0	<1
service.	Titanium	ppm	ASTM D5185m	>15	<1	<1	2
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>75	4	3	▲ 33
	Lead	ppm	ASTM D5185m		<1	0	1
	Copper	ppm	ASTM D5185m		6	3	30
		ppm	ASTM D5185m		0	0	1
	Antimony	ppm	ASTM D5185m			0	<1
		ppm	ASTM D5185m	200	0	0	<1
	Cadmium	ppm	ASTM D5185m		0	<1	<1
		ррш					
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	2	6	10	11
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	<1	0	1
	Manganese	ppm	ASTM D5185m	0	1	<1	8
	Magnesium	ppm	ASTM D5185m	9	21	17	38
	Calcium	ppm	ASTM D5185m	3114	2834	3058	3110
	Phosphorus	ppm	ASTM D5185m	1099	1073	948	1089
	Zinc	ppm	ASTM D5185m	1245	1265	1121	1296
	Sulfur	ppm	ASTM D5185m	7086	9783	12580	9332
	CONTAMINANT	S	method	limit/base	current	history1	history2
	Silicon		ASTM D5185m		48	30	337
	Sodium	ppm	ASTM D5185m	>400		1	12
	Potassium	ppm	ASTM D5185m	>20	<1 0	6	
		ppm %			0.222		6
	Water ppm Water	70 ppm	ASTM D6304 ASTM D6304		0.222 2220		
	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
		scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
		scalar	*Visual	NONE	NONE	NONE	NONE
				NORML	NORML	NORML	NORML
	Appearance	scalar	*Visual				
		scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG
Depart Id: KEMNOE [WILLECAD] 06022044 (Constraints 10/15/0000 1	Free Water	scalar	*Visual		NEG	NEG	NEG



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Certificate L2367