

## **OIL ANALYSIS REPORT**

Sample Rating Trend





## KEMP QUARRIES / PRYOR STONE [66579] WL137 Component

Transmission (Manual)

Fluid

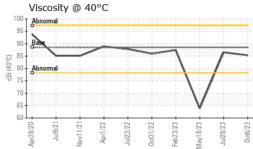
PETRO CANADA PRODURO TO-4 SAF 30 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0086241	PCA0084224	PCA0083970
esample at the next service interval to monitor. (	Sample Date		Client Info		06 Oct 2023	28 Jul 2023	18 May 2023
ustomer Sample Comment: Pm1 performed. All	Machine Age	hrs	Client Info		32269	31785	31319
I samples taken. Engine oil, and all filters	Oil Age	hrs	Client Info		484	1020	554
changed.)	Oil Changed		Client Info		Oil Added	Changed	Oil Added
ear	Sample Status				NORMAL	NORMAL	ATTENTION
component wear rates are normal.	WEAR META	10	method	limit/base	current	history1	history2
ontamination							
There is no indication of any contamination in the oil. <b>Fluid Condition</b> The condition of the oil is acceptable for the time in service.	Iron	ppm	ASTM D5185m		3	4	7
	Chromium	ppm	ASTM D5185m		3	0	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>225	5	6	<1
	Tin	ppm	ASTM D5185m	>10	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	2	1	3	0
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	2	2	<1
	Manganese	ppm	ASTM D5185m	9	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1	22	32	4
	Calcium	ppm	ASTM D5185m		3198	3121	<b>A</b> 87
	Phosphorus	ppm	ASTM D5185m		813	936	<b>3</b> 94
	Zinc	ppm	ASTM D5185m		1123	1155	<b>4</b> 99
	Sulfur	ppm	ASTM D5185m		4016	4379	▲ 1151
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>125	6	4	5
	Sodium	ppm	ASTM D5185m		0	2	1
	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	>0.1	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROP		method	limit/base		history1	history2
nort Id. KEMPBY IMUSCADI 05090779 (Concreted: 10/10/2020	Visc @ 40°C	cSt	ASTM D445	00.0	85.3	86.5	63.9 Submitted Pu

Report Id: KEMPRY [WUSCAR] 05980778 (Generated: 10/19/2023 18:18:56) Rev: 1



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c	SAMPLE IMAGES method limit/base	current	history1	history2
	Color	no image	no image	no image
Apri/122	Bottom	no image	no image	no image
Apr1/22 Ju[22/22 Get31/22 Feb23/23 May18/23 Ju[28/23 Oct6/23	GRAPHS			
	Iron (ppm)	Lead (ppm)		
	400 350 Severe			
	300 -			
E	250 Abnormal	0 - Abnormal		
	150 4	0-		
	2	0 -		
	Apr28/20 Jul9/21- Apr1/22 Jul22/22 Jul28/23 Jul28/23 Jul28/23	Apr28/20	Apr1/22	/lay18/23 Jul28/23 Oct6/23
	Apr/28/20 Jul9/21 Nev11/21 Jul22/22 Det31/22 Feb23/23 Jul28/23 Jul28/23 Oct6/23	Apr28/20 Jul9/21 Nov11/21	Apr1/22 Jul22/22 Oct31/22 Feb23/23	May18/23 Jul28/23 Oct6/23
	Aluminum (ppm)	Chromium (pp	m)	
	40 Severe 1	0 - Severe		
	304	8		
	gui abnormal <u>E</u>	<sup>6</sup> Abnormal		
	10-	2		1
			2	
	Apr28/20 Jul9/21 Apr1/22 Jul22/22 Get31/22 Feb23/23 May18/23 Jul28/23 Oct6/23	Apr28/20 Jul9/21 Nov11/21	Apr1/22 Jul22/22 0ct31/22 Feb23/23	May18/23 Jul28/23 Oct6/23
	Copper (ppm)	Silicon (ppm)		2
	500 30	Smarn		
	400 23			
	300 - Abnormal	The second se		
	10	Ū.		
	5	0 -		
	Apr/28/20 Jul9/21 + Apr1/21 + Jul22/22 + Geb/23/23 + Jul28/23 + Jul28/23 + Oct6/23 +	Apr28/20	Apr1/22 - Jul22/22 - Oct31/22 - Feb23/23 -	May18/23 - Jul28/23 - Oct6/23 -
		đ 2	Juli Octi Hebi	May' Juli 0c
	Viscosity @ 40°C	Additives		
	95 300	nanaaaaaaa phosphorus		Γ
0.0	230			
		Construction of the local division of the lo		$\backslash /$
	70 100	i i i	Ballenber (11/1/17/17/19/10/00/00/00/00/00/00/00/00/00/00/00/00/	
	60		22	z3 z3
	Apr28/20 Jul9/21 Apr1/22 Jul22/22 Get31/22 Feb23/23 May18/23 Jul28/23 Oct6/23	Apr28/20 Jul9/21 Nov11/21	Apr1/22 Jul22/22 Oct31/22 Feb23/23	May18/23 Jul28/23 0ct6/23
Laboratory Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 501 Madison Ave., Cary, NC 2751 : PCA0086241 <b>Received</b> : 16 Oct 2023 : 05980778 <b>Diagnosed</b> : 18 Oct 2023 : 10698073 <b>Diagnostician</b> : Angela Borella : MOB 1 contact Customer Service at 1-800-237-1369.	3 Kemp Q		Stone - Pryor 1050 E 520 Rd Pryor, OK US 74361 Contact:
* - Denotes test methods that a	re outside of the ISO 17025 scope of accreditation. fications are based on the simple acceptance decision rule	(JCGM 106:2012)		oryorstone.com T: F: