

OIL ANALYSIS REPORT

Sample Rating Trend





KEMP QUARRIES / BCS - MILL CREEK [64677] OHT103 Component

Rear Right Final Drive

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

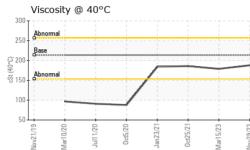
	SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0070637	PCA0086021	PCA004861
Resample at the next service interval to monitor. (Sample Date		Client Info		29 Nov 2023	15 Mar 2023	25 Oct 2021
ustomer Sample Comment: PM-1 sampled fluid)	Machine Age	hrs	Client Info		2855	2517	2050
ear	Oil Age	hrs	Client Info		2855	2517	2050
l component wear rates are normal.	Oil Changed		Client Info		N/A	Changed	Not Chango
ontamination	Sample Status				NORMAL	NORMAL	NORMAL
here is no indication of any contamination in the I.	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
uid Condition	Water		WC Method	>0.2	NEG	NEG	NEG
ne condition of the oil is acceptable for the time in rvice.	WEAR METAI	_S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>800	4	33	20
	Chromium	ppm	ASTM D5185m	>10	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m	>15	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>75	<1	3	2
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m	>75	0	4	3
	Tin	ppm	ASTM D5185m		0	<1	0
	Antimony	ppm	ASTM D5185m	>50			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	8	0
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	0	3	3
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	9	20	40	41
	Calcium	ppm	ASTM D5185m	3114	3454	3160	3080
	Phosphorus	ppm	ASTM D5185m	1099	938	1118	1025
	Zinc	ppm	ASTM D5185m	1245	1103	1335	1247
	Sulfur						
	Sullui	ppm	ASTM D5185m	7086	4314	7398	5613
	CONTAMINA		ASTM D5185m method	7086 limit/base		7398 history1	
				limit/base			
	CONTAMINAN	NTS	method	limit/base	current	history1	history2
	CONTAMINAN Silicon Sodium Potassium	NTS ppm	method ASTM D5185m	limit/base	current 20	history1 27	history2 22
	CONTAMINAN Silicon Sodium	NTS ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 20 0 0 current	history1 27 1	history2 22 0 0
	CONTAMINAN Silicon Sodium Potassium	NTS ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	limit/base >400 >20	current 20 0 0	history1 27 1 2	history2 22 0 0 history2 LIGHT
	CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	NTS ppm ppm ppm scalar scalar	method ASTM D5185m ASTM D5185m ASTM D5185m method *Visual *Visual	limit/base >400 >20 limit/base NONE NONE	Current 20 0 0 current NONE NONE	history1 27 1 2 history1 MODER NONE	history2 22 0 0 history2 LIGHT NONE
	CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	NTS ppm ppm ppm scalar	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE	Current 20 0 0 current NONE NONE NONE	history1 27 1 2 history1 MODER NONE NONE	history2 22 0 0 history2 LIGHT NONE NONE
	CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	NTS ppm ppm ppm scalar scalar	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE NONE	Current 20 0 0 Current NONE NONE NONE NONE	history1 27 1 2 history1 MODER NONE NONE NONE	history2 22 0 0 history2 LIGHT NONE NONE NONE
	CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	NTS ppm ppm ppm scalar scalar scalar	method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE NONE NONE	Current 20 0 0 Current NONE NONE NONE NONE NONE	history1 27 1 2 history1 MODER NONE NONE NONE NONE	history2 22 0 0 history2 LIGHT NONE NONE NONE NONE
	CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	NTS ppm ppm ppm scalar scalar scalar scalar scalar scalar	method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE NONE NONE	Current 20 0 0 Current NONE NONE NONE NONE NONE NONE	history1 27 1 2 history1 MODER NONE NONE NONE NONE NONE NONE	history2 22 0 0 history2 LIGHT NONE NONE NONE NONE NONE
	CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	NTS ppm ppm ppm scalar scalar scalar scalar scalar	method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	Current 20 0 0 Current NONE NONE NONE NONE NONE NONE NONE NON	history1 27 1 2 history1 MODER NONE NONE NONE NONE NONE NONE NONE NO	history2 22 0 0 LIGHT NONE NONE NONE NONE NONE NONE NONE
	CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	NTS ppm ppm ppm scalar scalar scalar scalar scalar scalar	method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >400 >20 limit/base NONE NONE NONE NONE NONE	Current 20 0 0 Current NONE NONE NONE NONE NONE NONE	history1 27 1 2 history1 MODER NONE NONE NONE NONE NONE NONE	history2 22 0 0 LIGHT NONE NONE NONE NONE NONE

NEG

NEG



OIL ANALYSIS REPORT



	FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	213.9	188	179	186
	SAMPLE IMA	GES	method	limit/base	current	history1	history2
/21 /23 /23	Color				no image	no image	no image
0ct25/21 Mar15/23 Nov29/23	Bottom				no image	no image	no image
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
	1500 - Severe				25 - Severe		
udd	1000 - Abnormal			đ	20 - 5 - 0 - <mark>Abnormal</mark> 5 -		
	0/20	0ct5/20	5/21	1/23	0/20	0ct5/20	5/21
	Nov21/19 Mar10/20 Jul11/20	~	0ct25/21 Mar15/23	Nov29/23	Nov21/19 Mar10/20 Jul11/20	7	0ct25/21 Mar15/23
	Aluminum (ppm)				Chromium (pp	om)	
	150				25 - Severe		
E	100- Abnormal			E.	5-		
	50 -			1	0 - Abnormal 5 -		
	001/	0ct5/20	5/21	//23	/19	0ct5/20	5/21
	Nov21/19 Mar10/20 Jul11/20	0ct5/20 Jan23/21	0ct25/21 Mar15/23	Nov29/23	Nov21/19 Mar10/20	0ct5/20 Jan23/21	0ct25/21 Mar15/23
	Copper (ppm)			100	Silicon (ppm)		
	150 -			80	00		
E	100 - Abnormal			e 60	Abarran		
	50 -			20	00		
	0/20	0ct5/20	5/21	- JZ3	0/20	0ct5/20	5/21
	Nov21/19	,	0ct25/21 Mar15/23	Nov29/23	Nov21/19 Mar10/20 Jul11/20	0ct5/20 Jan 23/21	0ct25/21 Mar15/23
	Viscosity @ 40°C			400	0	1	
	250 - Abnormal Base			300	calcium phosphorus zinc		
-St (40°C	200 - Abnormal	1		틆 200	00 -	/	
	100-	/		100	0		ann ann ann ann a' fhairt a baile Ann ann a' fhairt ann a'
	Mar10/20	0ct5/20 + -	0ct25/21+	Nov29/23	Mar10/20	0ct5/20 + -	0ct25/21 + -
	Nov; Mari	Jan	0ct Mari	Novi	Novi Mari Juli	Jan	0ct Mari
Laboratory Sample No. Lab Number Unique Number Test Package this sample report, of test methods that a	: WearCheck USA - : PCA0070637 : 06032952 : 10782743 : MOB 1 contact Customer Ser	Recieved Diagnose Diagnost	d : 12 ed : 15 ician : Sea	Dec 2023 Dec 2023 an Felton 9.	3 Ker		BCS-Mill Cr 609 Lazy E Noel, US 64 : TRAVIS EL mpquarries.c