

OIL ANALYSIS REPORT

Sample Rating Trend



Area G.LOPES CONSTRUCTION INC./Off-Road L33

Component Rear Differential

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

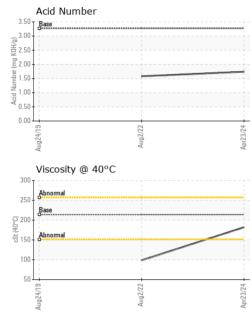
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122607	PCA0071924	PCA46444062
Sample Date		Client Info		23 Apr 2024	02 Aug 2022	24 Aug 2019
Machine Age	hrs	Client Info		11001	7816	1864
Oil Age	hrs	Client Info		11001	7816	
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	81	265	117
Chromium	ppm	ASTM D5185m	>3	<1	2	1
Nickel	ppm	ASTM D5185m	>3	0	<1	1
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>30	3	13	9
Lead	ppm	ASTM D5185m	>13	0	<1	0
Copper	ppm	ASTM D5185m	>103	20	1 43	1 15
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	1	2
Barium	ppm	ASTM D5185m	0	0	<1	2
Molybdenum	ppm	ASTM D5185m	0	2	3	3
Manganese	ppm	ASTM D5185m	0	1	4	
Magnesium	ppm	ASTM D5185m	9	24	11	9
Calcium	ppm	ASTM D5185m	3114	2937	2807	2673
Phosphorus	ppm	ASTM D5185m	1099	1049	933	864
Zinc	ppm	ASTM D5185m	1245	1220	1135	1028
Sulfur	ppm	ASTM D5185m	7086	6828	8009	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	4	8	6
Sodium	ppm	ASTM D5185m		3	7	7
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	3.27	1.74	1.58	



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VISUAL



White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	NONE NONE		
Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar	*Visual *Visual	NONE	NONE	NONE		
Silt Debris Sand/Dirt	scalar scalar						
Debris Sand/Dirt	scalar	*Visual	NONE	NOUT			
Sand/Dirt				NONE	NONE		
		*Visual	NONE	NONE	NONE		
Appearance	scalar	*Visual	NONE	NONE	NONE		
	scalar	*Visual	NORML	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML	NORML		
Emulsified Water	scalar	*Visual	>.2	NEG	NEG		
Free Water	scalar	*Visual		NEG	NEG		
FLUID PROPER	RTIES	method	limit/base	current	history1	history2	
		ASTM D445	213.9	182	98.5		
SAMPLE IMAGE	ES	method	limit/base	current	history1	history2	
Color				no image	no image	no image	
Bottom				no image	no image	no image	
GRAPHS							
Iron (ppm)			3	Lead (ppm)			
0				0.000			
Abnormal				Abnormal			
24/19	g2/22		23/24	24/19	g2/22	Anr/3/74	
Aug	Au		Apr	Aug	Au	Anri	
Aluminum (ppm)					pm)		
+				1			
Abnormal			hmdd	5 Abnormal			
1							
6//9	2/22		3/24	4/19	2/22	Anr/3//4	
Aug2	Aug		Apr2	Aug2	Aug	Anr2	
Copper (ppm)				Silicon (ppm)			
Severe			20				
- Abnormal			E 10	0 - Abnormal	1		
			_				
24/19	32/25		23/24	24/19	12/22	Anr/3/74 -	
	Aug		Aprá	Aug	Aug	Anr?	
Viscosity @ 40°C			(B/H	Acid Number			
Abnormal Base			Q 4.0	Base		*******************	
Abnormal			······ 별 2.0	D			
				0			
4/19	2/22		3/24 Acid	4/19	2/22 -	3/74	
Aug2	Aug		Apr2	Aug2	Aug	Aor23/24	
CA0122607 5161663 0997086 OB 2 <i>ttact Customer Servic</i>	Receiv Tested Diagn	Received : 26 Apr 2024 Tested : 29 Apr 2024 Diagnosed : 29 Apr 2024 - Wes Davis at 1-800-237-1369.			G LOPES CONSTRUCTION 565 WINTHROP ST TAUNTON, MA US 02780 Contact: BUTCH MCGRATH bmcgrath@glopes.com T:		
	Viscosity @ 40°C SAMPLE IMAGI Color Bottom GRAPHS Iron (ppm) Copper (ppm) Coppe	SAMPLE IMAGES	/isc @ 40°C cSt ASTM D445 SAMPLE IMAGES method Color Sattom Sattom Bottom Sattom Sattom Aluminum (ppm) Sattom Sattom Sattom Copper (ppm) Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom Sattom <thsattom< th=""> Sattom <th< td=""><td>Isice @ 40°C cSt ASTM D445 213.9 SAMPLE IMAGES method limit/base Color Imit/base Imit/base GRAPHS Imit/base Imit/base Jonn Imit/base Imit/base Aluminum (ppm) Imit/base Imit/base Copper (ppm) Imit/base Imit/base Viscosity @ 40°C Imit/base Imit/base Copper (ppm) Imit/base Imit/base Copper (ppm) Imit/base Imit/base Copper (ppm) Imit/base Imit/base Copper (ppm) Imit/base Imit/base EarCheck USA - 501 Madison Ave., Cary, NC 27513 Imit/base Data Class Tested : 29 Apr 2024 Imit/base Imit/base Imit/base Data Class Tested : 29 Apr 2024 Imit/base Imit/base Imit/base Data Class Data Class Data Class Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base <</td><td>Issc @ 40°C cSt ASTM D445 213.9 182 SAMPLE IMAGES method limit/base current Color no image no image Bottom no image no image GRAPHS Lead (ppm) Chromium (p Aluminum (ppm) Lead (ppm) Chromium (p Opper (ppm) Color Silicon (ppm) Opper (ppm) Chromium (p) Chromium (p) Viscosity @ 40°C Color Silicon (ppm) Opper (ppm) Chromium (p) Chromium (p) Chromium (p) Opper (ppm) Received :26 Apr 2024 Solitosi Diagnosed :29 Apr 2024 - Wes Davis Silicol of the ISO 17025 scope of accreditation. Icad (JCGM 10</td><td>Ites @ 40°C cst ASTM D445 213.9 182 98.5 SAMPLE IMAGES method imit/base current history1 Color no image no image no image no image Bottom no image no image no image no image Color Image no image no image no image GRAPHS Item Image no image no image no image Aluminum (ppm) Image <th< td=""></th<></td></th<></thsattom<>	Isice @ 40°C cSt ASTM D445 213.9 SAMPLE IMAGES method limit/base Color Imit/base Imit/base GRAPHS Imit/base Imit/base Jonn Imit/base Imit/base Aluminum (ppm) Imit/base Imit/base Copper (ppm) Imit/base Imit/base Viscosity @ 40°C Imit/base Imit/base Copper (ppm) Imit/base Imit/base Copper (ppm) Imit/base Imit/base Copper (ppm) Imit/base Imit/base Copper (ppm) Imit/base Imit/base EarCheck USA - 501 Madison Ave., Cary, NC 27513 Imit/base Data Class Tested : 29 Apr 2024 Imit/base Imit/base Imit/base Data Class Tested : 29 Apr 2024 Imit/base Imit/base Imit/base Data Class Data Class Data Class Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base <	Issc @ 40°C cSt ASTM D445 213.9 182 SAMPLE IMAGES method limit/base current Color no image no image Bottom no image no image GRAPHS Lead (ppm) Chromium (p Aluminum (ppm) Lead (ppm) Chromium (p Opper (ppm) Color Silicon (ppm) Opper (ppm) Chromium (p) Chromium (p) Viscosity @ 40°C Color Silicon (ppm) Opper (ppm) Chromium (p) Chromium (p) Chromium (p) Opper (ppm) Received :26 Apr 2024 Solitosi Diagnosed :29 Apr 2024 - Wes Davis Silicol of the ISO 17025 scope of accreditation. Icad (JCGM 10	Ites @ 40°C cst ASTM D445 213.9 182 98.5 SAMPLE IMAGES method imit/base current history1 Color no image no image no image no image Bottom no image no image no image no image Color Image no image no image no image GRAPHS Item Image no image no image no image Aluminum (ppm) Image Image <th< td=""></th<>	

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