

# **OIL ANALYSIS REPORT**

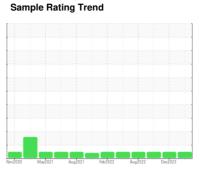


**G.LOPES CONSTRUCTION INC./Off-Road** 

L336

Component Transmission (Manual)

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





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the fluid.

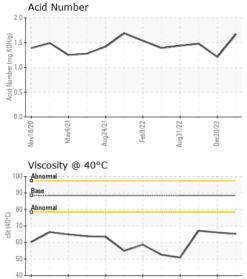
## **Fluid Condition**

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122979	PCA0110108	PCA0090582
Sample Date		Client Info		18 Jun 2024	20 Dec 2023	09 May 2023
Machine Age	hrs	Client Info		9919	9487	7770
Oil Age	hrs	Client Info		5145	5145	5145
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	38	8	7
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1
Lead	ppm	ASTM D5185m	>45	<1	0	<1
Copper	ppm	ASTM D5185m	>225	5	3	1
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	24	10	11
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	2
Manganese	ppm	ASTM D5185m	9	1	0	<1
Magnesium	ppm	ASTM D5185m	1	15	25	35
Calcium	ppm	ASTM D5185m	3131	2862	2730	2939
Phosphorus	ppm	ASTM D5185m	1194	1072	1030	1037
Zinc	ppm	ASTM D5185m	1281	1227	1203	1280
Sulfur	ppm	ASTM D5185m	3811	5049	4332	5377
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	5	3	4
	ppm	ASTM D5185m		24	2	2
Sodium	ppiii					
Sodium Potassium	ppm	ASTM D5185m	>20	5	0	3
	ppm		>20 limit/base	5 current	0 history1	3 history2



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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	LIGHT
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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	88.5	65.2	66.1	67.1
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS Iron (ppm)						
on (PPIII)				Lead (ppm)		
0 - Severe			10			
Severe Abnormal			Ed 5	Severe  Abnormal		
Severe  Abnormal	Feb 9/22	mg31/22	- Ed 5	Severe  Abnormal	Nug24/21Feb9/22	wg31/22
Severe  Abnormal	Feb 9/22	Aug31/22	- Ed 5	Severe D. Abnormal	A	Aug31/22
Aluminum (ppm)  Severe  Severe	Feb 9/22	Aug31/22	udd 15	Abnormal OZ/81/10/W Chromium (p	A	Aug31/22 Dec20/23
Aluminum (ppm)  Severe  Severe	Feb 9/22	Aug31/22	udd 11	Abnormal  07/81/08  Chromium (p	A	Aug31/22
Aluminum (ppm)  Severe  Abnormal  Aluminum (ppm)  Severe  Abnormal	Feb 9/22	Aug31/22	udd 1	Abnormal  Ozeror  Severe  Abnormal  Ozeror  Abnormal	A	Aug31/22
Aluminum (ppm)  Severe Abnormal  Aluminum (ppm)  Severe Abnormal			udd = 1	Abnormal  Chromium (p	ppm)	
Aluminum (ppm)  Severe  Abnormal  Aluminum (ppm)  Severe  Abnormal	Feb9/22 Feb9/22	Aug31/22 Aug31/22	udd = 1	Abnormal  Ozeror  Severe  Abnormal  Ozeror  Abnormal	A	Aug31/22 Aug31/22 Dec20/23
Aluminum (ppm)  Severe Abnormal  Aluminum (ppm)  Severe Abnormal			udd = 1	Abnormal  Chromium (p	Aug24/21	
Aluminum (ppm)  Severe  Abnormal  Aluminum (ppm)  Severe  Abnormal  Copper (ppm)			udd 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chromium (p	Aug24/21	
Aluminum (ppm)  Severe  Abnormal  Aluminum (ppm)  Severe  Abnormal  Copper (ppm)			udd 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chromium (p	Aug24/21	
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)  Severe  Abnormal  Copper (ppm)  Severe  Abnormal			udd 10	Chromium (p	Aug24/21	
Aluminum (ppm)  Severe Abnomal  Aluminum (ppm)  Severe Abnomal  Copper (ppm)  Severe Abnomal	Feb 9/22	Aug31/22	udd 5	Chromium (p	Aug24/21 Feb3/22	Aug31/22
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)  Severe  Abnormal  Copper (ppm)  Severe  Abnormal			udd 5	Chromium (p	Aug24/21	
Aluminum (ppm)  Severe Abnormal  OZISIANI  OZI	Feb 9/22	Aug31/22	udd 300 000 000 000 000 000 000 000 000 0	Chromium (p	Aug24/21	Aug31/22
Aluminum (ppm)  Severe Abnormal  OZISIANI (IZHZBRW  Aluminum (ppm)  Severe Abnormal  OZISIANI (IZHZBRW  Copper (ppm)  Severe Abnormal  OZISIANI (IZHZBRW  OZISIANI (I	Feb 9/22	Aug31/22	udd 300 000 000 000 000 000 000 000 000 0	Chromium (p	Aug24/21	Aug31/22 Dec20/23
Aluminum (ppm)  Severe Abnormal  OZISIANI (IZHZBRW  Aluminum (ppm)  Severe Abnormal  OZISIANI (IZHZBRW  Copper (ppm)  Severe Abnormal  OZISIANI (IZHZBRW  OZISIANI (I	Feb 9/22	Aug31/22	udd 300 000 000 000 000 000 000 000 000 0	Chromium (p	Aug24/21	Aug31/22
Aluminum (ppm)  Severe Abnormal  OZIBINAN  Aluminum (ppm)  Severe Abnormal  OZIBINAN  Copper (ppm)  Severe Abnormal  OZIBINAN  Viscosity @ 40°C  Abnormal  OZIBINAN  O	Feb 9/22	Aug31/22	udd 300 000 000 000 000 000 000 000 000 0	Chromium (p Severe Abnormal  Silicon (ppm) Severe Abnormal  Acid Number	Aug24/21	Aug31/22 Dec20/23
Aluminum (ppm)  Severe Abnormal  OZISIANI (IZHZBRW  Aluminum (ppm)  Severe Abnormal  OZISIANI (IZHZBRW  Copper (ppm)  Severe Abnormal  OZISIANI (IZHZBRW  OZISIANI (I	Feb 9/22	Aug31/22	udd (li)HOX Bill Janum II (li)HOX Bill Janum	Chromium (p	Aug24/21	Aug31/22 Dec20/23





Sample No. : PCA0122979 Lab Number : 06215885 Unique Number : 11088749

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024

Tested : 21 Jun 2024 : 21 Jun 2024 - Wes Davis Diagnosed

Test Package : MOB 2 Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**G LOPES CONSTRUCTION** 

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