

OIL ANALYSIS REPORT



NORMAL



G.LOPES CONSTRUCTION INC./Off-Road

L36

Component
Rear 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.

10 10-4 SAL 50 ((GAL)	Jan 2009	Nov2010 Jul2013	Oct2018 Nov2020 Fe	62023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0023320	PCA0090616	PCA0066453
Sample Date		Client Info		01 Apr 2024	06 Feb 2023	01 Mar 2022
Machine Age	hrs	Client Info		15219	14881	14139
Oil Age	hrs	Client Info		9063	9513	5076
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAI	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	12	13	14
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	2
Lead	ppm	ASTM D5185m	>45	0	2	<1
Copper	ppm	ASTM D5185m	>225	4	4	2
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	7	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	3	4	4
Manganese	ppm	ASTM D5185m	9	0	<1	<1
Magnesium	ppm	ASTM D5185m	1	31	40	35
Calcium	ppm	ASTM D5185m	3131	2908	3050	3215
Phosphorus	ppm	ASTM D5185m	1194	1019	1021	1094
Zinc	ppm	ASTM D5185m	1281	1161	1257	1381
Sulfur	ppm	ASTM D5185m	3811	9699	10179	7525
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	4	6	5
Sodium	ppm	ASTM D5185m		3	3	2
Potassium	ppm	ASTM D5185m	>20	0	0	1
FLUID DEGRA	/OITAD	method	limit/base	current	history1	history2

2.43

1.45

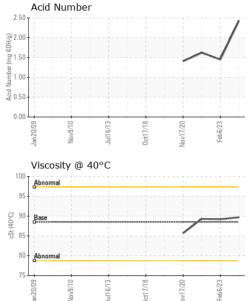
Acid Number (AN)

mg KOH/g ASTM D8045

1.62



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VISUAL		method	limit/base	current	his	story1	h	istory2
White Metal	scalar	*Visual	NONE	NONE	NOI	ΝE	NC	NE
Yellow Metal	scalar	*Visual	NONE	NONE	ION	ΝE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NOI	ΝE	NONE	
Silt	scalar	*Visual	NONE	NONE	NOI	ΝE	NONE	
Debris	scalar	*Visual	NONE	NONE	ION	ΝE	VL	ITE
Sand/Dirt	scalar	*Visual	NONE	NONE	ION	ΝE	NC	NE
Appearance	scalar	*Visual	NORML	NORML	NOF			RML
Odor	scalar	*Visual	NORML	NORML	NOF			RML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEC		NEG NEG	
Free Water	scalar	*Visual		NEG	NEC	à	NE	:G
FLUID PROPER	RTIES	method	limit/base	current	his	story1	history2	
Visc @ 40°C	cSt	ASTM D445	88.5	89.7	89.2	-	89.3	
SAMPLE IMAG	ES	method	limit/base	current	his	story1	h	istory2
Color				no image	no image		no image	
Bottom				no image	no image no ima		image	
GRAPHS								
Iron (ppm)			10	Lead (ppm)				
Severe	7		10					
Abnormal	***************************************		E 5	Abnormal				
3				0	3	80	-	
Jan20/09 Nov9/10 Jul16/13	Oct17/18	Nov17/20	7/0 03-	Jan20/09 Nov9/10	Jul16/13	Oct17/18	Nov17/20	Feb 6/23
7	Ö	Š	-	P =	_	0		
Aluminum (ppm)				Cl			2	
		,	1	Chromium (p	pm)		Š.	
Severe				5 T	pm)		N N	
Severe			E ¹	5 T	opm)		N N	
Abnormal	80	20	md d	Severe Abnormal		8		23
Abnormal	Oct17/18	Nov17/20	md d	Severe Abnormal	opm)	0ct17/18	Nov17/20 No	Feb 6/23
Abnormal 60/07/EFF Copper (ppm)	Oct17/18	Nov17/20	mdd	Severe Abnormal 60/007ue Silicon (ppm)	Jul16/13	Oct17/18		Feb 6/23
Abnormal 60/0724 Copper (ppm)	0ct17/18	Nov17/20	mdd 30	Severe Abnormal OURNOW Silicon (ppm)	Jul16/13	0ct17/18		Feb6/23
Abnormal 60/0724 Copper (ppm)	Oct17/18	Nov17/20	30 mdd 10	Severe Abnormal Silicon (ppm Severe Abnormal	Jul16/13	Oct17/18		Feb6/23
Abnormal Copper (ppm) Severe Abnormal		2	30 Edd 10	Severe Ahnomal Silicon (ppm) Severe Abnomal	Jull 6/13		Nov17/20	
Abnormal Copper (ppm) Severe Abnormal	0et17/18 0et17/18	2	30 Edd 10	Severe Abnormal Silicon (ppm Severe Abnormal	Jul16/13	0et17//80et17//8	Nov17/20	Feb.6.23
Abnormal Copper (ppm) Severe Abnormal		2	udd 30 wdd 10	Severe Abnormal Silicon (ppm Severe Abnormal Solution Severe Abnormal	Jul6/13			
Severe Abnormal Copper (ppm) Severe Abnormal Viscosity @ 40°C Abnormal		2	udd 30 wdd 10	Severe Abnormal Silicon (ppm Severe Abnormal Solution Severe Abnormal	Jul6/13		Nov17/20	
Severe Abnormal 6000Zuer Copper (ppm) Severe Abnormal Viscosity @ 40°C Abnormal Base		2	udd 30 wdd 10	Severe Abnormal Silicon (ppm Severe Abnormal Solution Severe Abnormal	Jul6/13		Nov17/20	
Copper (ppm) Severe Abnormal Copper (ppm) Severe Abnormal OURSHOON Viscosity @ 40°C Abnormal Base Abnormal		2	udd 30 wdd 10	Severe Abnormal Silicon (ppm Severe Abnormal Solution Severe Abnormal	Jul6/13		Nov17/20	
Severe Abnormal 6000Zuer Copper (ppm) Severe Abnormal Viscosity @ 40°C Abnormal Base		2	30 mdq 10 (b)/HOX (m) paqumy 1.0 (c)/hOX (m) 0.0 (d)	Severe Abnormal Silicon (ppm Severe Abnormal Solution Severe Abnormal	Jul6/13		Nov17/20	





Certificate L2367

Laboratory Sample No.

Lab Number : 06137610 Unique Number : 10957075 Test Package : MOB 2

: PCA0023320

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Apr 2024 **Tested** : 04 Apr 2024

Diagnosed : 04 Apr 2024 - Wes Davis **G LOPES CONSTRUCTION**

565 WINTHROP ST TAUNTON, MA US 02780

Contact: BUTCH MCGRATH bmcgrath@glopes.com

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)

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F: