

OIL ANALYSIS REPORT

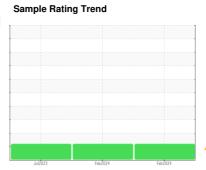
G.LOPES CONSTRUCTION INC./OFF-ROAD

L-63

Component

Front Right Final Drive

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





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date.

Wear

Gear wear is indicated. All other metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

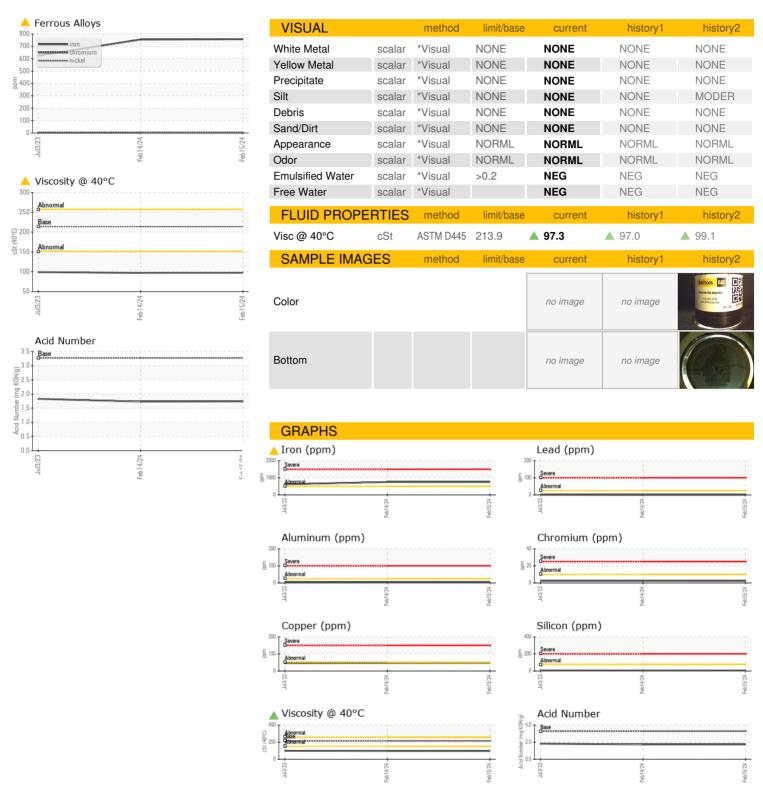
▲ Fluid Condition

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

(GAL)	Jul2023 Feb2024 Feb2024					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109853	PCA0098340	PCA0090753
Sample Date		Client Info		15 Feb 2024	14 Feb 2024	03 Jul 2023
Machine Age	hrs	Client Info		1924	1924	343
Oil Age	hrs	Client Info		1924	1924	343
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<u> </u>	△ 754	△ 624
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	5
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	48	47	46
Tin	ppm	ASTM D5185m	>10	0	0	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	0	0	3
Barium	ppm	ASTM D5185m	0	13	13	5
Molybdenum	ppm	ASTM D5185m	0	10	10	10
Manganese	ppm	ASTM D5185m	0	8	8	8
Magnesium	ppm	ASTM D5185m	9	10	10	11
Calcium	ppm	ASTM D5185m	3114	2729	2722	3073
Phosphorus	ppm	ASTM D5185m	1099	1044	1059	1068
Zinc	ppm	ASTM D5185m	1245	1174	1147	1270
Sulfur	ppm	ASTM D5185m	7086	4522	4642	4678
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	6	5	6
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	2	2	2
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	3.27	1.74	1.73	1.83



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Laboratory

Sample No. Lab Number

: 06093146 **Unique Number** : 10885999 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0109853 Received : 19 Feb 2024 **Tested** : 20 Feb 2024

Diagnosed : 21 Feb 2024 - Don Baldridge

Certificate L2367 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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