

OIL ANALYSIS REPORT

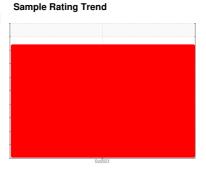


G.LOPES CONSTRUCTION INC./OFF-ROAD

E-34

Component **Left Final Drive**

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





DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

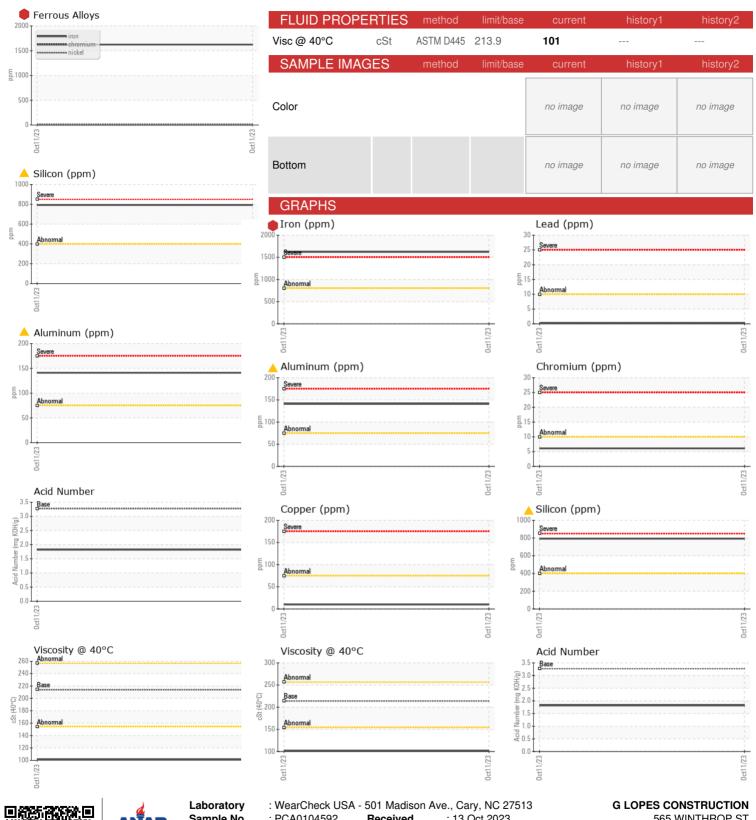
Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

RO 10-4 SAE 50 (-	GAL)			Oct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104592		
Sample Date		Client Info		11 Oct 2023		
Machine Age	hrs	Client Info		7847		
Oil Age	hrs	Client Info		7847		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	1623		
Chromium	ppm	ASTM D5185m	>10	6		
Nickel	ppm	ASTM D5185m	>5	4		
Titanium	ppm	ASTM D5185m	>15	8		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>75	<u> </u>		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>75	10		
Tin	ppm	ASTM D5185m	>8	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	15		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	0	5		
Manganese	ppm	ASTM D5185m	0	14		
Magnesium	ppm	ASTM D5185m	9	86		
Calcium	ppm	ASTM D5185m	3114	2649		
Phosphorus	ppm	ASTM D5185m	1099	1068		
Zinc	ppm	ASTM D5185m	1245	1096		
Sulfur	ppm	ASTM D5185m	7086	6923		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	793		
Sodium	ppm	ASTM D5185m		26		
Potassium	ppm	ASTM D5185m	>20	56		
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	3.27	1.82		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		



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Certificate L2367

Sample No. Lab Number Unique Number

: PCA0104592 : 05978394 : 10695689 Test Package : MOB 2

: 13 Oct 2023 Received Diagnosed : 19 Oct 2023 Diagnostician : Jonathan Hester

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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