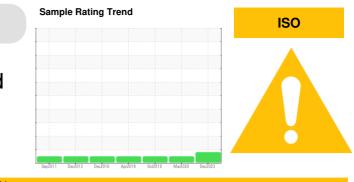


OIL ANALYSIS REPORT





G.LOPES CONSTRUCTION INC./Off-Road Machine L34 Component

Hydraulic System

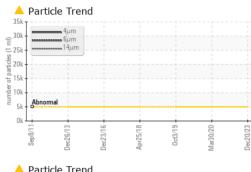
PETRO CANADA DURATRAN (--- GAL)

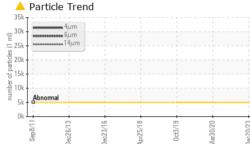
DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0109861	PCA04160027	PCA88183049
No corrective action is recommended at this time.	Sample Date		Client Info		20 Dec 2023	30 Mar 2020	03 Oct 2019
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		32268	28442	28075
Wear	Oil Age	hrs	Client Info		21047		
All component wear rates are normal.	Oil Changed		Client Info		N/A	N/A	N/A
Contamination	Sample Status				ABNORMAL	NORMAL	NORMAL
here is a high amount of silt (particulates < 6 nicrons in size) present in the oil.	CONTAMINAT	TION	method	limit/base	current	history1	history2
uid Condition	Water		WC Method	>0.1	NEG	NEG	NEG
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>20	11	10	10
	Chromium	ppm	ASTM D5185m	>10	3	2	3
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	2	1	1
	Lead	ppm	ASTM D5185m		2	1	1
	Copper	ppm	ASTM D5185m		7	7	8
	Tin	ppm	ASTM D5185m		<1	1	1
	Vanadium	ppm	ASTM D5185m	210	<1		
	Cadmium	ppm	ASTM D5185m		<1		
	ADDITIVES	ppm	method	limit/base		history1	history2
	Boron		ASTM D5185m	110	90	86	103
	Barium	ppm	ASTM D5185m		90 7	0	0
		ppm				7	6
	Molybdenum	ppm	ASTM D5185m		6		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		69	69	75
	Calcium	ppm	ASTM D5185m		2997	2913	3281
	Phosphorus	ppm	ASTM D5185m		1081	1055	1157
	Zinc	ppm	ASTM D5185m		1279	1205	1263
	Sulfur	ppm	ASTM D5185m	2641	5326		
	CONTAMINAN	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	11	14	15
	Sodium	ppm	ASTM D5185m		6	6	7
	Potassium	ppm	ASTM D5185m	>20	3	3	2
	FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647		A 30992		
	Particles >6µm		ASTM D7647	>1300	607		
	Particles >14µm		ASTM D7647	>160	6		
	Particles >21µm		ASTM D7647	>40	1		
	Particles >38µm		ASTM D7647	>10	0		
	Particles >71µm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)		A 22/16/10		
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Acid Number (AN)		ASTM D8045		0.964		
					0.004	o	

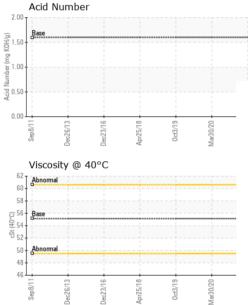
Submitted By: MATT MANOLI



OIL ANALYSIS REPORT





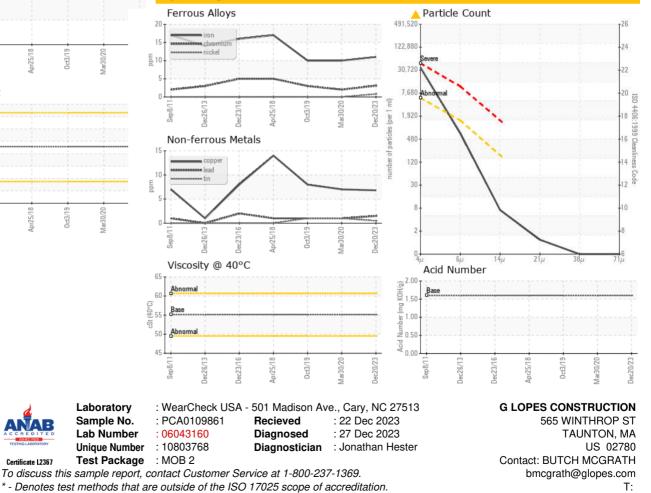


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.14	47.2		
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color						no image



Bottom





* - 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)

Certificate L2367

F:

Page 2 of 2