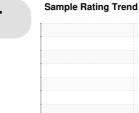


OIL ANALYSIS REPORT









Machine Id **447000**

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

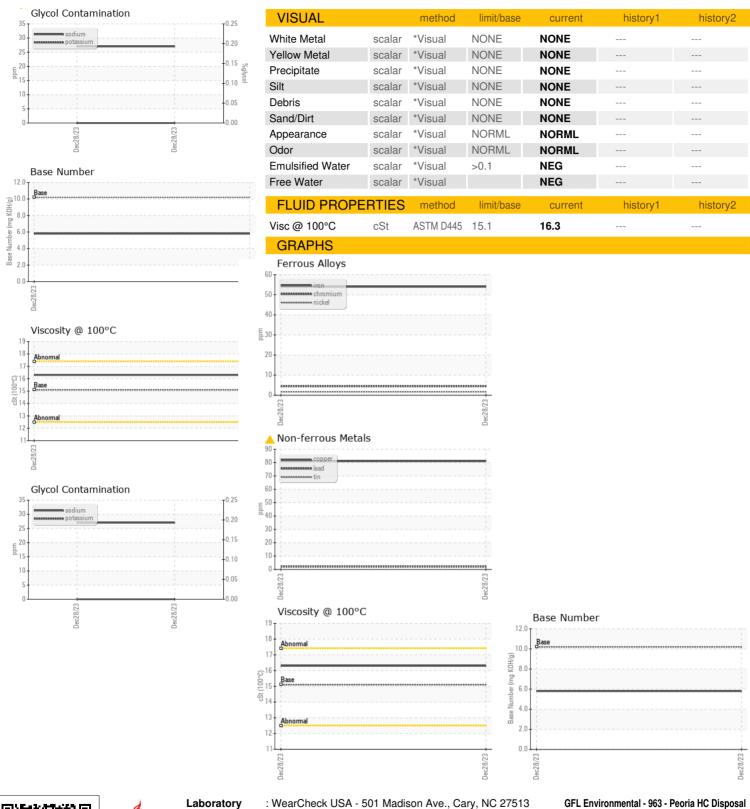
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

	GAL)					
SAMPLE INFORM	•	method	limit/base	0. LKW 0. p.t	historyd	hiotom (O
	VIA LION		IIIIII/Dase	current	history1	history2
Sample Number		Client Info		GFL0102750		
Sample Date		Client Info		28 Dec 2023		
Machine Age	hrs	Client Info		15917		
Oil Age	hrs	Client Info		15917		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	54		
Chromium	ppm	ASTM D5185m	>4	4		
Nickel	ppm	ASTM D5185m	>2	2		
- itanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>9	2		
ead	ppm	ASTM D5185m	>30	2		
Copper	ppm	ASTM D5185m	>35	<u>^</u> 81		
in	ppm	ASTM D5185m	>4	2		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	16		
Barium	ppm	ASTM D5185m	5	<1		
Nolybdenum	ppm	ASTM D5185m	F0			
Manganese		ASTIVI DOTOSIII	50	81		
nanganooo	ppm	ASTM D5185m	0	81 1		
-				-		
Magnesium	ppm	ASTM D5185m	0	1		
Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	0 560	1 807		
Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 560 1510	1 807 2151		
Magnesium Calcium Phosphorus Cinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 560 1510 780	1 807 2151 1041		
Magnesium Calcium Phosphorus Cinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 560 1510 780 870	1 807 2151 1041 1304		
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 560 1510 780 870 2040	1 807 2151 1041 1304 2684	 	
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	0 560 1510 780 870 2040 limit/base	1 807 2151 1041 1304 2684 current	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 560 1510 780 870 2040 limit/base >+100	1 807 2151 1041 1304 2684 current	 history1	 history2
Magnesium Calcium Phosphorus finc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 560 1510 780 870 2040 limit/base >+100	1 807 2151 1041 1304 2684 current 8 27	 history1	history2
Magnesium Calcium Phosphorus Cinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m MEthod ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 560 1510 780 870 2040 limit/base >+100	1 807 2151 1041 1304 2684 current 8 27	 history1 	history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 560 1510 780 870 2040 limit/base >+100 >20	1 807 2151 1041 1304 2684 current 8 27 0	 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Godium Potassium INFRA-RED Goot % Witration	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	0 560 1510 780 870 2040 limit/base >+100 >20	1 807 2151 1041 1304 2684 current 8 27 0 current	history1 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Witration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D76145	0 560 1510 780 870 2040 limit/base >+100	1 807 2151 1041 1304 2684 current 8 27 0 current 0.1 14.1	history1 history1	history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Godium Potassium INFRA-RED Goot % Vitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D76145	0 560 1510 780 870 2040 limit/base >+100 >20 limit/base	1 807 2151 1041 1304 2684 current 8 27 0 current 0.1 14.1 26.9	history1 history1	history2 history2



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06050641 : 10816590

Recieved : GFL0102750

Diagnosed Diagnostician Test Package : FLEET (Additional Tests: Glycol)

: 04 Jan 2024 : 05 Jan 2024 : Don Baldridge

Contact: Corey Dozard cdozard@gflenv.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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