

OIL ANALYSIS REPORT

Sample Rating Trend

COOL CHEMICALS

{UNASSIGNED} 834054

Component Natural Gas Engine

Fluid

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

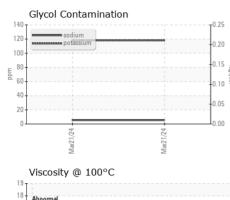
IAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0114118		
	Sample Date		Client Info		21 Mar 2024		
	Machine Age	hrs	Client Info		123		
Vear	Oil Age	hrs	Client Info		0		
letal levels are typical for a new component reaking in.	Oil Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
ontamination	CONTAMINAT	ION	method	limit/base	current	history1	history2
ium and/or potassium levels are high. Test for ol is negative.	Water		WC Method	>0.1	NEG		
d Condition	WEAR METAL	S	method	limit/base	current	history1	history2
e BN result indicates that there is suitable calinity remaining in the oil. The condition of the is suitable for further service.							
	Iron	ppm	ASTM D5185m		18		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		1		
	Titanium	ppm	ASTM D5185m	>5	<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>25	5		
	Lead	ppm	ASTM D5185m	>40	1		
	Copper	ppm	ASTM D5185m	>150	5		
	Tin	ppm	ASTM D5185m	>4	1		
	Vanadium	ppm	ASTM D5185m		<1		
	Cadmium	ppm	ASTM D5185m		<1		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	50	55		
	Barium	ppm	ASTM D5185m	5	1		
	Molybdenum	ppm	ASTM D5185m	50	135		
	Manganese	ppm	ASTM D5185m	0	2		
	Magnesium	ppm	ASTM D5185m	560	774		
	Calcium	ppm	ASTM D5185m		1531		
	Phosphorus	ppm	ASTM D5185m		847		
	Zinc	ppm	ASTM D5185m	870	976		
	Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m		976 3642		
		ppm			3642		
	Sulfur	ppm	ASTM D5185m	2040 limit/base	3642		
	Sulfur CONTAMINAN	ppm ITS	ASTM D5185m method	2040 limit/base	3642 current	 history1	
	Sulfur CONTAMINAN Silicon	ppm ITS ppm	ASTM D5185m method ASTM D5185m	2040 limit/base >25	3642 current 26	 history1 	 history2
	Sulfur CONTAMINAN Silicon Sodium	ppm ITS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	2040 limit/base >25	3642 <u>current</u> 26 5 ▲ 118	 history1 	 history2
	Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ITS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	2040 limit/base >25 >20	3642 <u>current</u> 26 5 ▲ 118	 history1 	 history2
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ITS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	2040 limit/base >25 >20 limit/base	3642 <u>current</u> 26 5 ▲ 118 <u>current</u>	 history1 history1	history2 history2
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ITS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	2040 limit/base >25 >20 limit/base >20	3642 <u>current</u> 26 5 ▲ 118 <u>current</u> 0	 history1 history1 	 history2 history2
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ITS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	2040 limit/base >25 >20 limit/base >20	3642 <u>current</u> 26 5 ▲ 118 <u>current</u> 0 5.3 20.6	 history1 history1 	 history2 history2
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ITS ppm ppm ppm ppm ppm % Abs/cm Abs/cm Abs/1mm	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	2040 limit/base >25 >20 limit/base >20 >30 limit/base	3642 <u>current</u> 26 5 ▲ 118 <u>current</u> 0 5.3 20.6	 history1 history1 	 history2 history2

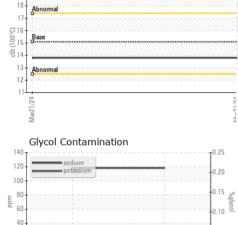


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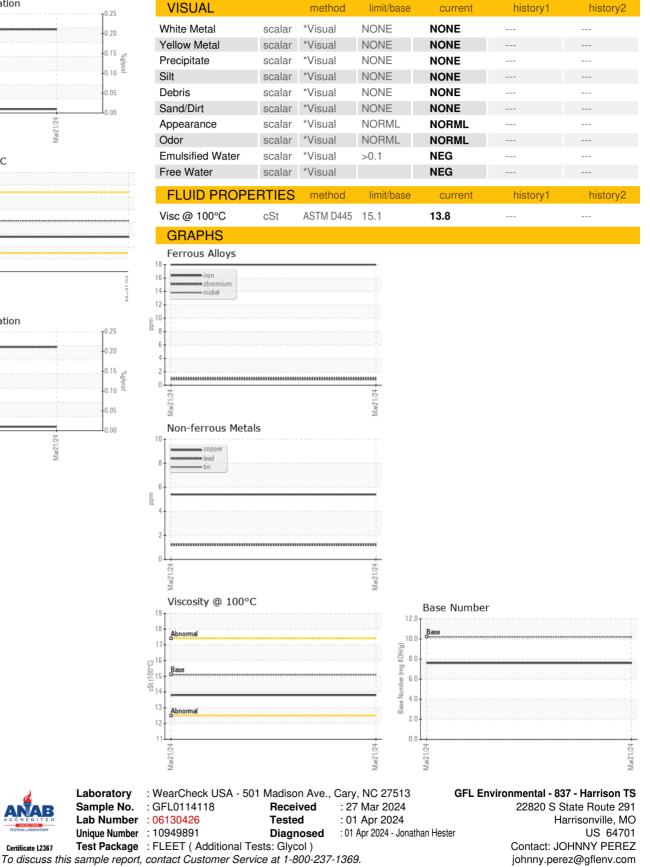




0.05

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* - 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

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