

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

749012-310059

Component Natural Gas Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

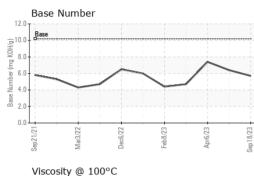
Fluid Condition

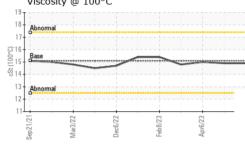
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084672	GFL0078172	GFL0078081
Sample Date		Client Info		18 Sep 2023	25 Apr 2023	06 Apr 2023
Machine Age	hrs	Client Info		13829	143791	142295
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S .	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	5	5
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	1	0
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>35	9	4	6
Tin	ppm	ASTM D5185m	>4	<1	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	50	10	23	33
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	53	55	46
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	625	682	504
Calcium	ppm	ASTM D5185m	1510	1666	1650	1413
Phosphorus	ppm	ASTM D5185m				
Zinc		AUTIW DUTUUIII	780	707	837	684
ZINC	ppm	ASTM D5185m	780 870	707 964	837 1034	684 841
Sulfur	ppm ppm					
	ppm	ASTM D5185m	870	964	1034	841
Sulfur	ppm	ASTM D5185m ASTM D5185m	870 2040	964 2897	1034 2756	841 2025
Sulfur CONTAMINAN	ppm TS	ASTM D5185m ASTM D5185m method	870 2040 limit/base	964 2897 current	1034 2756 history1	841 2025 history2
Sulfur CONTAMINAN Silicon	ppm TS ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	870 2040 limit/base >+100	964 2897 current 11	1034 2756 history1 3	841 2025 history2 4
Sulfur CONTAMINAN Silicon Sodium	ppm TS ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	870 2040 limit/base >+100	964 2897 current 11 6	1034 2756 history1 3 6	841 2025 history2 4 4
Sulfur CONTAMINAN Silicon Sodium Potassium	ppm TS ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	870 2040 limit/base >+100 >20	964 2897 current 11 6 <1	1034 2756 history1 3 6 0	841 2025 history2 4 4 <1
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m method	870 2040 limit/base >+100 >20	964 2897 current 11 6 <1 current	1034 2756 history1 3 6 0 history1	841 2025 history2 4 4 <1 <1 history2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	870 2040 <i>limit/base</i> >+100 >20 <i>limit/base</i>	964 2897 current 11 6 <1 current 0	1034 2756 history1 3 6 0 history1 0	841 2025 history2 4 4 <1 <1 history2 0
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm TS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7624	870 2040 imit/base >+100 >20 imit/base 20	964 2897 current 11 6 <1 current 0 11.2	1034 2756 history1 3 6 0 0 history1 0 7.9	841 2025 history2 4 4 4 <1 <1 history2 0 6.9
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm TS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7624	870 2040 imit/base >+100 >20 imit/base >20 >20 >30	964 2897 current 11 6 <1 current 0 11.2 23.4	1034 2756 history1 3 6 0 history1 0 7.9 17.8	841 2025 history2 4 4 <1 <1 history2 0 6.9 17.4

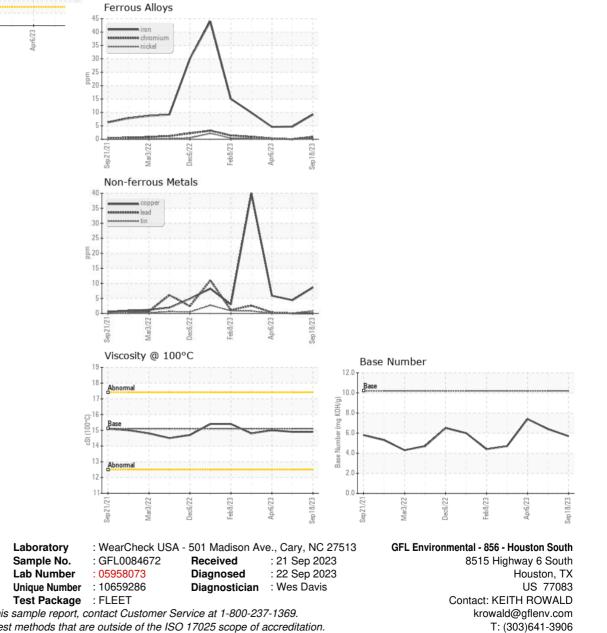


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.9	14.9	15.0
GRAPHS						





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)

Contact/Location: GFL856, 859, 864 - KEITH ROWALD - GFL856

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