

Component **Natural Gas Engine** Fluid PETRO CANADA DURON GEO LD 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

the next service interval to monitor.

RECOMMENDATION	PROBLEMATIC TEST RESULTS						
The oil is near the end of it's useful service life,	Sample Status	Sample Status			MARGINAL	NORMAL	NORMAL
recommend schedule an oil change. Resample at	Base Number (BN)	mg KOH/g	ASTM D2896	10.2	A 3.0	3.5	5.0

022 Nov2022 Dec2022 Jan2023 Feb2023 Mar2023 Apr2

Customer Id: GFL836 Sample No.: GFL0083752 Lab Number: 05899641 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED	O ACTIONS			
Action	Status	Date	Done By	Description
Service/change Fluid			?	The oil is near the end of change

The oil is near the end of it's useful service life, recommend schedule an oil change.

HISTORICAL DIAGNOSIS

NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



view report

03 Apr 2023 Diag: Doug Bogart

02 May 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

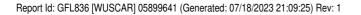
NORMAL



15 Mar 2023 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Machine Id 731112-310100

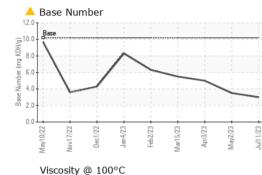
Component **Natural Gas Engine**

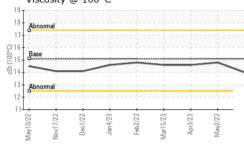
Fluid PETRO CANADA DURON GEO LD 15W40 (--- GAL)

PETRO CANADA DURON GEO LD 15W40	(May2022 Nov	72022 D652022 Jan2023	Feb2023 Mar2023 Apr2023 May20	23 JUI2023	
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0083752	GFL0070371	GFL0070353
The oil is near the end of it's useful service life,	Sample Date		Client Info		11 Jul 2023	02 May 2023	03 Apr 2023
recommend schedule an oil change. Resample at	Machine Age	hrs	Client Info		4951	4656	4593
the next service interval to monitor.	Oil Age	hrs	Client Info		0	0	300
Wear	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
All component wear rates are normal.	Sample Status				MARGINAL	NORMAL	NORMAL
Contamination There is no indication of any contamination in the	WEAR METAL	S	method	limit/base	current	history1	history2
oil.	Iron	ppm	ASTM D5185m	>50	29	12	20
Fluid Condition	Chromium	ppm	ASTM D5185m	>4	2	<1	1
The BN level is low.	Nickel	ppm	ASTM D5185m	>2	1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>9	3	0	3
	Lead	ppm	ASTM D5185m	>30	18	2	4
	Copper	ppm	ASTM D5185m	>35	2	2	3
	Tin	ppm	ASTM D5185m	>4	1	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	50	6	11	20
	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	50	60	55	86
	Manganese	ppm	ASTM D5185m	0	1	<1	1
	Magnesium	ppm	ASTM D5185m	560	558	503	848
	Calcium		LOTH DELOF	1 = 1 0	1643	1579	0500
	Galcium	ppm	ASTM D5185m	1510	1043	1373	2528
	Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	1510 780	725	664	1106
				780			
	Phosphorus	ppm	ASTM D5185m	780 870	725	664	1106
	Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	780 870	725 976	664 929	1106 1525
	Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	780 870 2040 limit/base	725 976 2434	664 929 2333	1106 1525 3787
	Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	780 870 2040 limit/base	725 976 2434 current	664 929 2333 history1	1106 1525 3787 history2
	Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ITS	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	780 870 2040 limit/base >+100	725 976 2434 current 7	664 929 2333 history1 4	1106 1525 3787 history2 8
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ITS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	780 870 2040 limit/base >+100	725 976 2434 current 7 8	664 929 2333 history1 4 1	1106 1525 3787 history2 8 6
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ITS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	780 870 2040 limit/base >+100 >20	725 976 2434 current 7 8 3	664 929 2333 history1 4 1 1	1106 1525 3787 history2 8 6 2
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ITS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	780 870 2040 limit/base >+100 >20 limit/base	725 976 2434 current 7 8 3 3 current	664 929 2333 history1 4 1 1 1 history1	1106 1525 3787 history2 8 6 2 2 history2
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm iTS ppm ppm ppm ppm % Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844	780 870 2040 limit/base >+100 >20 limit/base	725 976 2434 current 7 8 3 3 current 0	664 929 2333 history1 4 1 1 history1 0	1106 1525 3787 history2 8 6 2 2 history2 0.1
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ITS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7845	780 870 2040 limit/base >+100 >20 limit/base	725 976 2434 current 7 8 3 3 current 0 11.9	664 929 2333 history1 4 1 1 history1 0 0 10.9	1106 1525 3787 history2 8 6 2 2 history2 0.1 11.1
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ITS ppm ppm ppm ppm ppm ppm Abs/cm Abs/cm Abs/1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7845	780 870 2040 limit/base >+100 >20 limit/base >20 >30 limit/base	725 976 2434 current 7 8 3 3 current 0 11.9 25.3	664 929 2333 history1 4 1 1 history1 0 10.9 20.0	1106 1525 3787 history2 8 6 2 history2 0.1 11.1 21.3

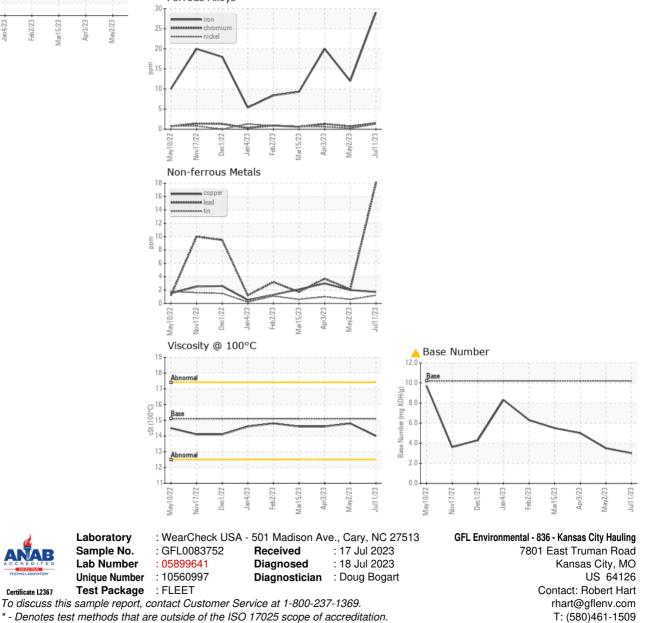


OIL ANALYSIS REPORT





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	NONE
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	14.0	14.8	14.6
GRAPHS						
Ferrous Alloys						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

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