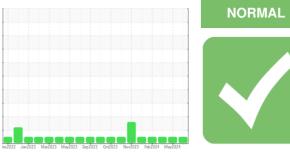


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

933025

#### Component Natural Gas Engine Fluid 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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117218	GFL0117241	GFL0109806
Sample Date		Client Info		17 May 2024	01 May 2024	01 Mar 2024
Machine Age	hrs	Client Info		2646	2524	2429
Oil Age	hrs	Client Info		0	1200	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	10	9	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	5	5
Lead	ppm	ASTM D5185m	>30	2	2	<1
Copper	ppm	ASTM D5185m	>35	3	<1	1
Tin	ppm	ASTM D5185m	>4	1	<1	1
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	14	19	25
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	53	53	48
Manganese	ppm	ASTM D5185m	0	1	0	0
Magnesium	ppm	ASTM D5185m	560	539	620	607
Calcium	ppm	ASTM D5185m	1510	1697	1817	1680
Phosphorus	ppm	ASTM D5185m	780	780	898	847
Zinc	ppm	ASTM D5185m	870	1004	1119	963
Sulfur	ppm	ASTM D5185m	2040	3035	3252	2628
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	6	7
Sodium	ppm	ASTM D5185m		9	3	5
Potassium	ppm	ASTM D5185m	>20	2	10	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.6	9.6	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	20.6	19.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	16.6	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	2.8	5.7	6.9



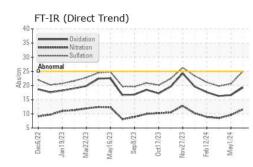
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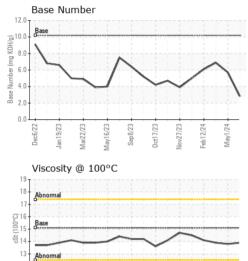
Dec6/22

Jan 19/23

Mar22/23 May16/23 Sen8/23

# **OIL ANALYSIS REPORT**

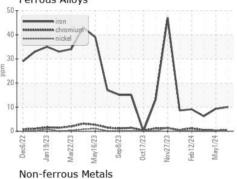


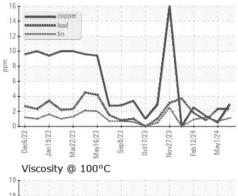


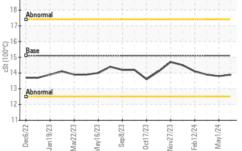
Feb12/24 May1/24

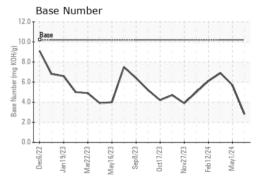
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.9	13.8	13.9
GRAPHS						

Ferrous Alloys









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 836 - Kansas City Hauling Sample No. : GFL0117218 Received : 21 May 2024 7801 East Truman Road Lab Number : 06185836 Tested : 22 May 2024 Kansas City, MO Unique Number : 11042588 Diagnosed : 22 May 2024 - Wes Davis US 64126 Test Package : FLEET Contact: Loyce Stewart Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. loyce.stewart@gflenv.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: GFL836 [WUSCAR] 06185836 (Generated: 05/22/2024 10:33:25) Rev: 1

Contact/Location: GFL823,834,836,837,840 - Loyce Stewart - GFL836