

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 834050 Component **Natural Gas Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

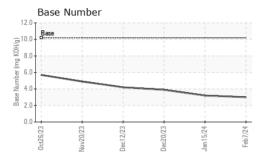
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

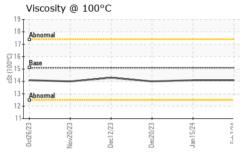
GLO LD 15W40 (GAL)	Oct2023	Nov2023 Dec2023	3 Dec2023 Jan2024	Feb 2024	
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102413	GFL0108155	GFL0102486
Sample Date		Client Info		07 Feb 2024	15 Jan 2024	20 Dec 2023
Machine Age	hrs	Client Info		868	737	589
Oil Age	hrs	Client Info		737	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	65	56	50
Chromium	ppm	ASTM D5185m	>5	1	1	<1
Vickel	ppm	ASTM D5185m	>4	1	2	<1
Titanium	ppm	ASTM D5185m	>5	0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	4	4	2
Lead	ppm	ASTM D5185m	>40	2	2	1
Copper	ppm	ASTM D5185m	>150	16	16	15
Tin	ppm	ASTM D5185m	>4	3	2	2
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	17	15
Barium	ppm	ASTM D5185m	5	3	0	2
Molybdenum	ppm	ASTM D5185m	50	64	62	63
Manganese	ppm	ASTM D5185m	0	10	9	8
Magnesium	ppm	ASTM D5185m	560	777	706	765
Calcium	ppm	ASTM D5185m	1510	1042	1023	1094
Phosphorus	ppm	ASTM D5185m	780	731	672	697
Zinc	ppm	ASTM D5185m	870	919	878	949
Sulfur	ppm	ASTM D5185m	2040	2340	2387	2476
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	27	28	27
Sodium	ppm	ASTM D5185m		4	9	3
Potassium	ppm	ASTM D5185m	>20	2	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.6	11.2	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	23.3	22.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.7	21.4	20.1
Doos Number (DNI)	ma 1/011/2	ACTM DOOOC	10.0	2.0	2.0	0.0

Base Number (BN) mg KOH/g ASTM D2896 10.2 3.0



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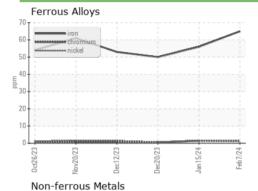




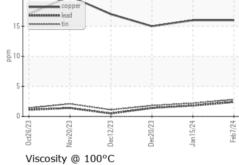
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

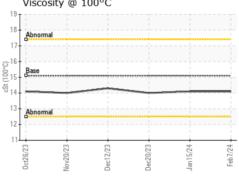
FLUID PROPE	EKIIES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.1	14.1	14.0

GRAPHS

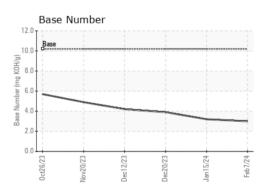








Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)







Certificate L2367

Laboratory Sample No.

: GFL0102413 Lab Number : 06089385 Unique Number : 10876830 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Feb 2024 **Tested** : 15 Feb 2024

Diagnosed : 16 Feb 2024 - Don Baldridge

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701 Contact: JOHNNY PEREZ

johnny.perez@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.

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