

OIL ANALYSIS REPORT

(YA117956) Machine Id 10538C

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (29 QTS)

Sample Rating Trend



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.

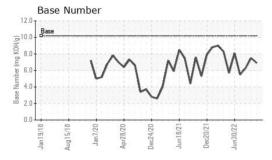
23 (10)		12018 Aug20	18 Jan 2020 Apr 2020	Dec2020 Jun2021 Dec2021 .	Jun2022	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098096	GFL0079596	GFL0083330
Sample Date		Client Info		20 Dec 2023	03 Oct 2023	22 May 2023
Machine Age	hrs	Client Info		13144	13144	13144
Oil Age	hrs	Client Info		441	558	385
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	15	8
Chromium	ppm	ASTM D5185m	>4	<1	1	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	1	0
Lead	ppm	ASTM D5185m	>30	0	2	<1
Copper	ppm	ASTM D5185m	>35	<1	1	<1
Tin	ppm	ASTM D5185m	>4	<1	1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	17	20	11
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	51	51	48
Manganese	ppm	ASTM D5185m	0	<1	4	<1
Magnesium	ppm	ASTM D5185m	560	598	863	535
Calcium	ppm	ASTM D5185m	1510	1559	1499	1624
Phosphorus	ppm	ASTM D5185m	780	824	782	692
Zinc	ppm	ASTM D5185m	870	989	1021	950
Sulfur	ppm	ASTM D5185m	2040	2551	2851	2526
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	8	15	4
Sodium	ppm	ASTM D5185m		7	13	21
Potassium	ppm	ASTM D5185m	>20	5	19	13
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.7	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.6	20.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	17.2	17.0
Doos Number (DNI)	ma 1/011/a	ACTAA DOOOC	10.0	6.0	7 -	0.0

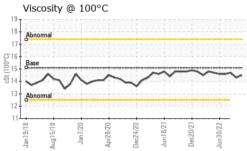
6.9

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



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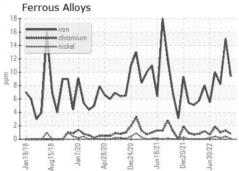


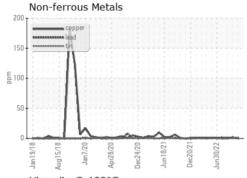


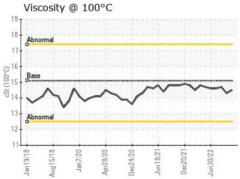
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

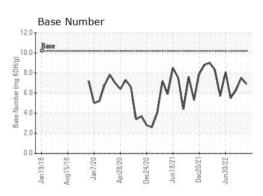
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.3	14.7

GRAPHS













Certificate L2367

Test Package : FLEET

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098096 : 06041313 : 10796542

Recieved Diagnosed

: 20 Dec 2023 : 22 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC US 27703

Contact: Shane Parks shane.parks@gflenv.com

T: (919)596-1363 F: (919)598-1852

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)