

# **OIL ANALYSIS REPORT**

(YA133455) [B Service] 10639C

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (36 GAL)



Sample Rating Trend



## 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.

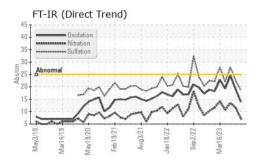
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124457	GFL0111063	GFL0087741
Sample Date		Client Info		03 Jun 2024	05 Feb 2024	01 Sep 2023
Machine Age	hrs	Client Info		19360	18446	17152
Oil Age	hrs	Client Info		914	1294	2328
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA <sup>-</sup>	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7	30	36
Chromium	ppm	ASTM D5185m	>4	<1	4	5
Nickel	ppm	ASTM D5185m	>2	0	<1	1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	3	4
Lead	ppm	ASTM D5185m	>30	0	<1	3
Copper	ppm	ASTM D5185m	>35	<1	3	7
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	3	10	0
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	50	60	56	64
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	560	930	559	658
Calcium	ppm	ASTM D5185m	1510	1087	1475	1898
Phosphorus	ppm	ASTM D5185m	780	1083	734	813
Zinc	ppm	ASTM D5185m	870	1238	940	1051
Sulfur	ppm	ASTM D5185m	2040	3456	2252	2915
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	24	13
Sodium	ppm	ASTM D5185m		6	10	34
Potassium	ppm	ASTM D5185m	>20	4	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.5	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.2	11.5	13.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	22.6	27.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	19.0	24.6
Dogo Number (DNI)	ma 1/011/2	ACTAI DOOOC	10.0	0 E	4.0	0.5

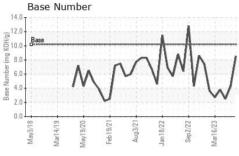
8.5

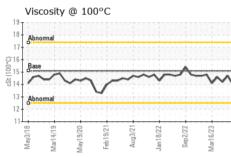
Base Number (BN) mg KOH/g ASTM D2896 10.2



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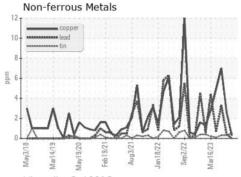


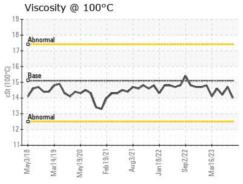


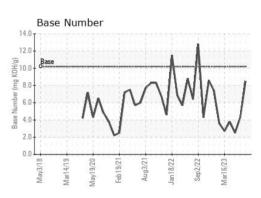
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.0	14.7	14.2

# Ferrous Alloys 120 80











Certificate 12367

Laboratory Sample No. Unique Number : 11061925 Test Package : FLEET

: GFL0124457 Lab Number : 06199802

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jun 2024 **Tested** 

: 05 Jun 2024 Diagnosed : 07 Jun 2024 - Sean Felton

GFL Environmental - 006 - Wilmington

3618 US Highway 421 N Wilmington, NC US 28401

Contact: Eric Wood eric.wood@gflenv.com T: (717)723-1956

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) F: (910)762-6880