

# **OIL ANALYSIS REPORT**

### Sample Rating Trend





Machine Id
7986
Component
Front Na

Component Front Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (27 LTR)

## 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.

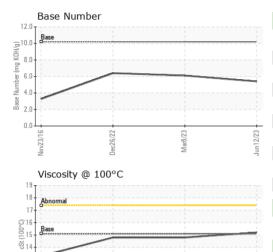
	Mov2016 Dec2022 Mar2023 Jun2023					
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0084559	GFL0071447	GFL0058706
Sample Date		Client Info		12 Jun 2023	08 Mar 2023	26 Dec 2022
Machine Age	hrs	Client Info		14086	13537	13006
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	9	27	13
Chromium	ppm	ASTM D5185m	>4	1	2	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	6	2	0
Lead	ppm	ASTM D5185m	>30	3	0	<1
Copper	ppm	ASTM D5185m	>35	2	2	<1
Tin	ppm	ASTM D5185m	>4	2	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Beryllium	ppm	ASTM D5185m				
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	50	17	2	15
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	54	54	54
Manganese	ppm	ASTM D5185m	0	2	1	<1
Magnesium	ppm	ASTM D5185m	560	552	864	606
Calcium	ppm	ASTM D5185m	1510	1784	1041	1660
Phosphorus	ppm	ASTM D5185m	780	703	882	745
Zinc	ppm	ASTM D5185m	870	1024	1116	1027
Sulfur	ppm	ASTM D5185m	2040	2690	2806	2848
Lithium	ppm	ASTM D5185m				
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+100	4	6	4
Sodium	ppm	ASTM D5185m		8	5	8
Potassium	ppm	ASTM D5185m	>20	1	1	0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.2	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	20.1	19.7
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	16.6	16.3
Base Number (BN)	mg KOH/g	ASTM D2896		5.4	6.1	6.4
(=, 1)	99					



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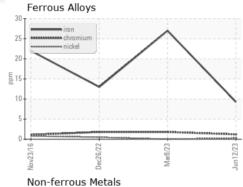
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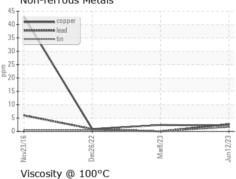


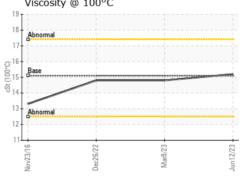
VISUAL		method			history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	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

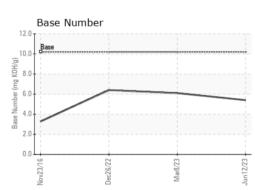
FLUID PROPI	ERIIES	metnoa	ilmit/base	current	nistory i	nistory 2
Visc @ 100°C	cSt	ASTM D445	15.1	15.2	14.8	14.8

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10535940 Test Package : FLEET

: GFL0084559 : 05885457

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Jun 2023 Diagnosed

: 30 Jun 2023 Diagnostician : Wes Davis

GFL Environmental - 918 - Hartland HC

630 E Industrial Drive Hartland, WI US 53029

Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

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)