

# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

945028-260277

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

#### 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.

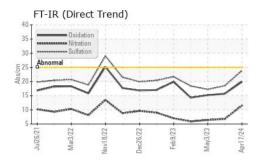
( GAL)		Jul2021	Mar2022 Nov2022	Dec2022 Feb2023 May2023	Apr2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106743	GFL0084637	GFL0078133
Sample Date		Client Info		17 Apr 2024	19 Oct 2023	03 May 2023
Machine Age	hrs	Client Info		217	149698	56826
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
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	17	15	4
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	3	1	<1
Lead	ppm	ASTM D5185m	>30	3	0	0
Copper	ppm	ASTM D5185m	>35	4	6	<1
Tin	ppm	ASTM D5185m	>4	2	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	2	37	38
Barium	ppm	ASTM D5185m	5	1	8	0
Molybdenum	ppm	ASTM D5185m	50	66	46	47
Manganese	ppm	ASTM D5185m	0	3	8	<1
Magnesium	ppm	ASTM D5185m	560	555	513	588
Calcium	ppm	ASTM D5185m	1510	1695	1453	1511
Phosphorus	ppm	ASTM D5185m	780	699	716	735
Zinc	ppm	ASTM D5185m	870	920	855	908
Sulfur	ppm	ASTM D5185m	2040	2728	2281	2865
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	10	24	4
Sodium	ppm	ASTM D5185m		26	9	2
Potassium	ppm	ASTM D5185m	>20	10	6	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.5	6.8	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	18.5	17.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	15.7	15.2

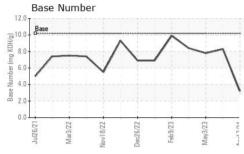
3.2

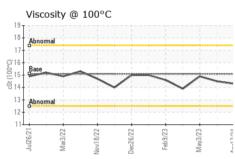
Base Number (BN) mg KOH/g ASTM D2896 10.2



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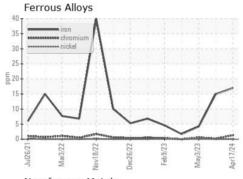


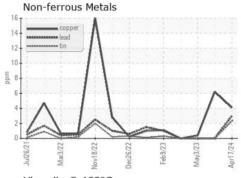


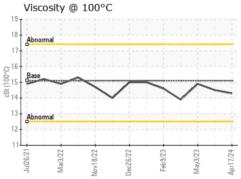
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

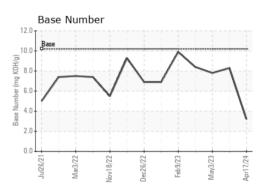
FLUID PROP	ERIIES	method	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.5	14.9

### **GRAPHS**













Certificate 12367

Laboratory Sample No. Unique Number : 10989491

Test Package : FLEET

: GFL0106743 Lab Number : 06154068

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

Diagnosed

: 19 Apr 2024 : 22 Apr 2024 : 22 Apr 2024 - Wes Davis

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: Jose Gonzalez jgonzalez2@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.

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

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