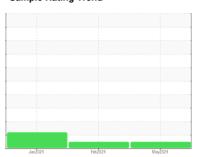


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **834096** 

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (28 QTS

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

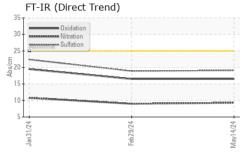
### **Fluid Condition**

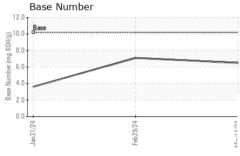
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

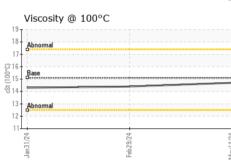
(28 QTS)		Jar	2024	Feb2024 May2	124	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121918	GFL0106770	GFL0092172
Sample Date		Client Info		14 May 2024	29 Feb 2024	31 Jan 2024
Machine Age	hrs	Client Info		1203	895	644
Oil Age	hrs	Client Info		895	644	644
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
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	23	13	48
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	<1	0	0
Aluminum	ppm	ASTM D5185m		13	5	25
Lead	ppm	ASTM D5185m	>30	<1	<1	2
Copper	ppm	ASTM D5185m		1	2	12
Tin		ASTM D5185m	>4	<1	<1	1
Vanadium	ppm	ASTM D5185m	>4	<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	50	13	23	13
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	55	48	52
Manganese	ppm	ASTM D5185m	0	1	1	8
Magnesium	ppm	ASTM D5185m	560	586	540	636
Calcium	ppm	ASTM D5185m	1510	1753	1416	1148
Phosphorus	ppm	ASTM D5185m	780	835	784	665
Zinc	ppm	ASTM D5185m	870	980	937	879
Sulfur	ppm	ASTM D5185m	2040	2880	2675	2327
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	7	22
Sodium	ppm	ASTM D5185m		7	6	4
Potassium	ppm	ASTM D5185m	>20	47	16	▲ 108
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.0	10.8
Sulfation	Abs/.1mm	*ASTM D7415		19.1	18.9	22.4
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.5	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.5	7.1	3.6
Dado Hambol (DIV)	mg nong	. IO THI DEGGO	. 0.2	0.0	7.1	0.0

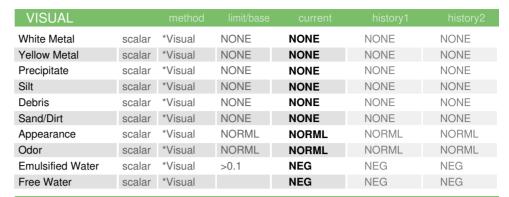


# **OIL ANALYSIS REPORT**



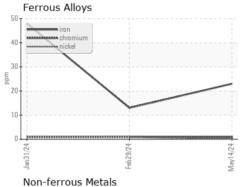


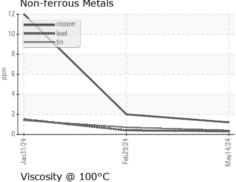


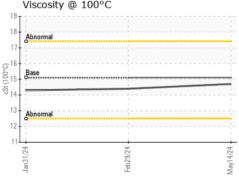


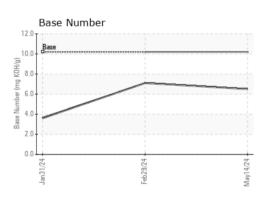
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.4	14.3

## **GRAPHS**













Laboratory Sample No. Lab Number : 06188808 Unique Number : 11045560

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0121918

Received **Tested** Diagnosed

: 23 May 2024 : 24 May 2024 : 24 May 2024 - Wes Davis

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: Jose Gonzalez

jgonzalez2@gflenv.com

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

Report Id: GFL856 [WUSCAR] 06188808 (Generated: 05/24/2024 14:34:48) Rev: 1

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