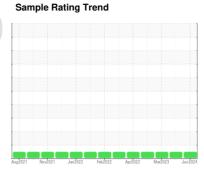


# **OIL ANALYSIS REPORT**

(YA163861) 931017

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)





## 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**

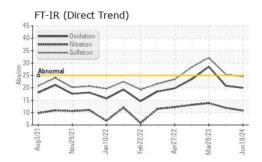
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

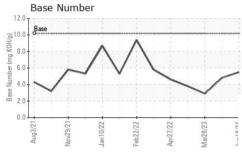
( GAL) Augžozi Novžozi Janžozz Feb.2022 Apržozz Maržozz Junžoz4							
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0123411	GFL0082499	GFL0050726	
Sample Date		Client Info		18 Jun 2024	28 Aug 2023	28 Mar 2023	
Machine Age	hrs	Client Info		6474	6474	5234	
Oil Age	hrs	Client Info		6474	1240	1669	
Oil Changed		Client Info		N/A	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ΓΙΟΝ	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	14	18	29	
Chromium	ppm	ASTM D5185m	>4	<1	2	2	
Nickel	ppm	ASTM D5185m	>2	<1	1	2	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>9	2	2	4	
Lead	ppm	ASTM D5185m	>30	5	6	17	
Copper	ppm	ASTM D5185m	>35	2	1	3	
Tin	ppm	ASTM D5185m	>4	0	2	2	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	17	11	6	
Barium	ppm	ASTM D5185m	5	<1	44	<1	
Molybdenum	ppm	ASTM D5185m	50	58	62	73	
Manganese	ppm	ASTM D5185m	0	<1	2	1	
Magnesium	ppm	ASTM D5185m	560	658	636	682	
Calcium	ppm	ASTM D5185m	1510	1930	1750	2067	
Phosphorus	ppm	ASTM D5185m	780	949	839	944	
Zinc	ppm	ASTM D5185m	870	1147	1084	1186	
Sulfur	ppm	ASTM D5185m	2040	3034	2724	2812	
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	5	6	6	
Sodium	ppm	ASTM D5185m		14	9	15	
Potassium	ppm	ASTM D5185m	>20	10	3	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	10.8	11.9	13.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	25.4	32.1	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	20.8	28.5	
		ACTM DOOG		E	-	2.0	

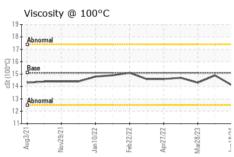
Base Number (BN) mg KOH/g ASTM D2896 10.2 5.5



# **OIL ANALYSIS REPORT**



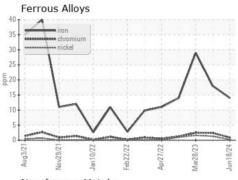


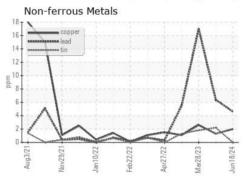


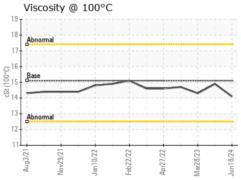
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

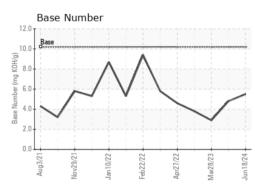
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.1	14.9	14.3

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0123411 Lab Number : 06215559 Unique Number : 11088423

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024

**Tested** : 21 Jun 2024 Diagnosed : 21 Jun 2024 - Wes Davis

GFL Environmental - 007 - Brunswick

2809 Galloway Road Bolivia, NC US 28422

Contact: DONALD CRAVEN dcraven@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)

Report Id: GFL007 [WUSCAR] 06215559 (Generated: 06/21/2024 14:44:16) Rev: 1

Submitted By: DONALD CRAVEN

F: (910)253-4179

T: