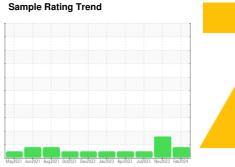


# **OIL ANALYSIS REPORT**

(P8963D) 945008-260260

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (7 GAL)





## **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Cylinder, crank, or cam shaft wear is indicated.

### Contamination

There is no indication of any contamination in the

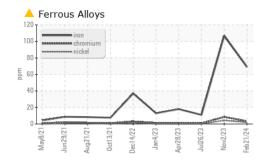
### **Fluid Condition**

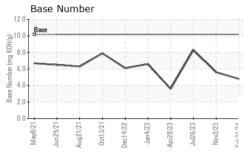
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

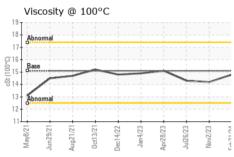
/ GAL)	May2021 Jum2021 Aug2021 Oct2021 Dec2022 Jam2023 Apr2023 Jul2023 Nov2023 Feb2024							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0081090	GFL0081108	GFL0081062		
Sample Date		Client Info		21 Feb 2024	02 Nov 2023	26 Jul 2023		
Machine Age	hrs	Client Info		17066	3192	17066		
Oil Age	hrs	Client Info		941	1200	150		
Oil Changed		Client Info		Not Changd	Changed	Changed		
Sample Status				ABNORMAL	ABNORMAL	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		
ron	ppm	ASTM D5185m	>50	<b>6</b> 9	<b>▲</b> 107	11		
Chromium	ppm	ASTM D5185m	>4	3	<u>^</u> 8	<1		
Nickel	ppm	ASTM D5185m	>2	2	4	0		
Titanium	ppm	ASTM D5185m		<1	1	0		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>9	6	12	2		
Lead	ppm	ASTM D5185m	>30	2	3	3		
Copper	ppm	ASTM D5185m	>35	1	1	2		
Tin	ppm	ASTM D5185m	>4	2	2	1		
Vanadium	ppm	ASTM D5185m		- <1	<1	0		
Cadmium	ppm	ASTM D5185m		0	<1	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	50	5	153	225		
Barium	ppm	ASTM D5185m	5	0	0	0		
Molybdenum	ppm	ASTM D5185m	50	61	101	72		
Vanganese	ppm	ASTM D5185m		1	3	3		
Magnesium	ppm	ASTM D5185m	560	536	446	500		
Calcium	ppm	ASTM D5185m	1510	1699	1559	1515		
Phosphorus		ASTM D5185m	780	758	977	893		
Zinc	ppm	ASTM D5185m	870	946	1349	1093		
Sulfur	ppm	ASTM D5185m	2040	2265	3245	3466		
	ppm							
CONTAMINAN		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+100	12	56	9		
Sodium	ppm	ASTM D5185m		11	4	4		
Potassium	ppm	ASTM D5185m	>20	2	5	<1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		8.0	0.1	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	9.7	7.6	5.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	21.2	19.0		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2		
	DATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 18.5	history1 15.8	history2 14.3		
FLUID DEGRAD  Oxidation  Base Number (BN)			>25		•	_		

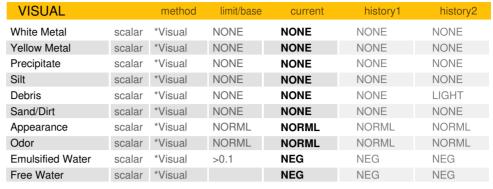


## **OIL ANALYSIS REPORT**



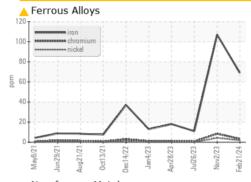


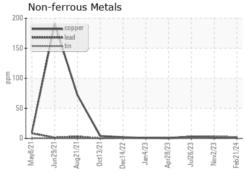


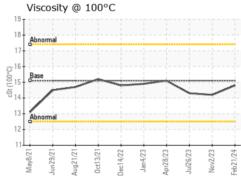


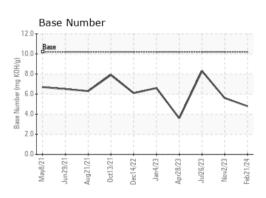
FLUID PROP	ERHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.2	14.3

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number : 06096800 **Unique Number** : 10889653 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0081090 Received

**Tested** Diagnosed

: 23 Feb 2024 : 23 Feb 2024 - Sean Felton

: 22 Feb 2024

GFL Environmental - 884 - Lake County - Tavares 321 Southridge Industrial Way

Tavares, FL US 32778

Contact: RON FERAGOTTI

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)

T: F: