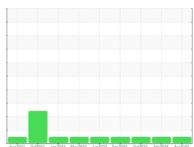


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# 847005-101265

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (7 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**

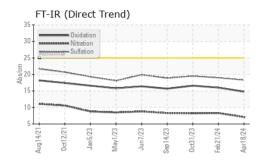
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

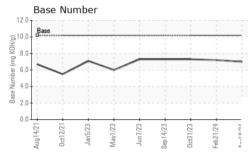
(7 GAL)  Aug/2021 Oct/2021 Jan/2023 May/2023 Jun/2023 Sept/2023 Oct/2023 Feb/2024 Apr/2024								
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0114564	GFL0081093	GFL0081106		
Sample Date		Client Info		18 Apr 2024	21 Feb 2024	31 Oct 2023		
Machine Age	hrs	Client Info		16810	16480	15722		
Oil Age	hrs	Client Info		1200	772	1200		
Oil Changed		Client Info		Changed	Not Changd	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINAT	TION	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	5	7	5		
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>2	0	0	<1		
Titanium	ppm	ASTM D5185m		<1	<1	<1		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>9	1	<1	2		
Lead	ppm	ASTM D5185m	>30	0	0	<1		
Copper	ppm	ASTM D5185m	>35	0	<1	0		
Tin	ppm	ASTM D5185m	>4	<1	<1	0		
Vanadium	ppm	ASTM D5185m		<1	<1	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	50	27	27	22		
Barium	ppm	ASTM D5185m	5	0	0	0		
Molybdenum	ppm	ASTM D5185m	50	48	49	45		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	560	500	489	506		
Calcium	ppm	ASTM D5185m	1510	1563	1572	1424		
Phosphorus	ppm	ASTM D5185m	780	766	760	760		
Zinc	ppm	ASTM D5185m	870	884	872	884		
Sulfur	ppm	ASTM D5185m	2040	2802	2350	2238		
CONTAMINAN	NTS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+100	4	0	5		
Sodium	ppm	ASTM D5185m		3	5	6		
Potassium	ppm	ASTM D5185m	>20	0	0	2		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		0	0	0		
Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.3	8.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	19.0	19.5		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	16.0	16.6		

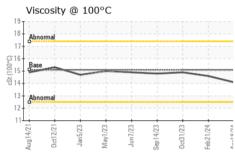
Base Number (BN) mg KOH/g ASTM D2896 10.2 7.0

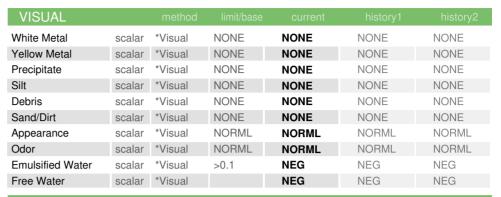


## **OIL ANALYSIS REPORT**



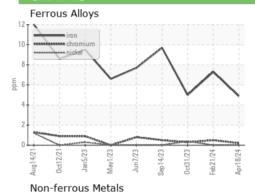


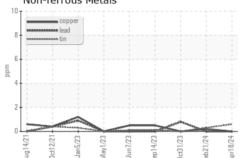


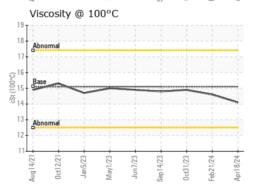


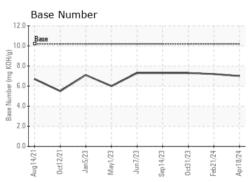
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.1	14.6	14.9	

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **Lab Number** : 06154072

Test Package : FLEET

: GFL0114564 Unique Number : 10989495

Received : 19 Apr 2024 **Tested** : 22 Apr 2024 Diagnosed

: 22 Apr 2024 - Wes Davis

GFL Environmental - 884 - Lake County - Tavares

321 Southridge Industrial Way Tavares, FL

US 32778 Contact: JEFF COOPERSMITH

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: GFL884 [WUSCAR] 06154072 (Generated: 04/22/2024 11:58:19) Rev: 1

Submitted By: Daniel Wheeler

T:

F: