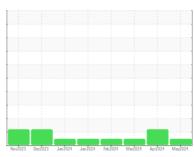


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 834094 Component

Diesel Engine

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### 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.

( QTS) Nev2023 Ove2023 Jan2024 Jan2024 Feb2024 Mar2024 Apr2024 Mary2024						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118790	GFL0118758	GFL0114110
Sample Date		Client Info		08 May 2024	15 Apr 2024	18 Mar 2024
Machine Age	hrs	Client Info		1146	998	860
Oil Age	hrs	Client Info		1146	998	716
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	63	64	53
Chromium	ppm	ASTM D5185m	>20	3	3	2
Nickel	ppm	ASTM D5185m	>4	2	3	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	34	32	27
Lead	ppm	ASTM D5185m	>40	1	2	2
Copper	ppm	ASTM D5185m	>330	18	19	15
Tin	ppm	ASTM D5185m	>15	2	2	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	7	10
Barium	ppm	ASTM D5185m	5	<1	3	2
Molybdenum	ppm	ASTM D5185m	50	66	65	58
Manganese	ppm	ASTM D5185m	0	14	14	12
Magnesium	ppm	ASTM D5185m	560	832	746	720
Calcium	ppm	ASTM D5185m	1510	1447	1292	1286
Phosphorus	ppm	ASTM D5185m	780	817	820	706
Zinc	ppm	ASTM D5185m	870	1027	970	885
Sulfur	ppm	ASTM D5185m	2040	2719	2651	2553
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>25	24	27	24
Sodium	ppm	ASTM D5185m	00	8	5	8
Potassium	ppm	ASTM D5185m		119	115	113
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	12.7	12.5	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.0	25.8	24.7
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.3	23.2	21.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.2	<b>▲</b> 1.9	3.5



# **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

Lab Number : 06176741 Unique Number : 11022794 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0118790 Received : 13 May 2024 **Tested** 

: 14 May 2024 Diagnosed : 14 May 2024 - Wes Davis

22820 S State Route 291 Harrisonville, MO

GFL Environmental - 837 - Harrison TS

US 64701

Contact: SARA PATRICK spatrick@gflenv.com

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)

T:

F: