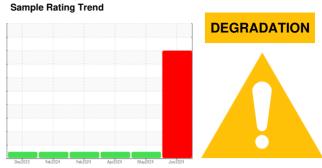


# **OIL ANALYSIS REPORT**

(**TFY1477**) 934058

**Natural Gas Engine** 

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



## **DIAGNOSIS**

#### Recommendation

We advise that you check for a possible overheat condition. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. ( Customer Sample Comment: Sample

### Wear

Tin, aluminum and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Piston wear is indicated.

### Contamination

There is an abnormal level of sulfation indicated.

#### Fluid Condition

The oil viscosity is lower than normal. The BN level is low. An additive depletion is indicated. The oil is no longer serviceable.

GAL)		Dec2023	Feb2024 Feb2024	4 Apr2024 May2024	Jun2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0125244	GFL0117806	GFL0117752
Sample Date		Client Info		21 Jun 2024	08 May 2024	24 Apr 2024
Machine Age	hrs	Client Info		2577	2214	2107
Oil Age	hrs	Client Info		0	207	489
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				ABNORMAL	NORMAL	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
Iron	ppm	ASTM D5185m	>50	<b>48</b>	10	14
Chromium	ppm	ASTM D5185m	>4	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	<u> </u>	8	11
Lead	ppm	ASTM D5185m	>30	9	0	<1
Copper	ppm	ASTM D5185m	>35	10	3	2
Tin	ppm	ASTM D5185m	>4	<u></u> 3	<1	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	70	14	5
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>2</b>	53	56
Manganese	ppm	ASTM D5185m	0	1	1	1
Magnesium	ppm	ASTM D5185m	560	<b>19</b>	554	606
Calcium	ppm	ASTM D5185m	1510	<u> </u>	1572	1854
Phosphorus	ppm	ASTM D5185m	780	<b>296</b>	777	824
Zinc	ppm	ASTM D5185m	870	<b>23</b>	944	1093
Sulfur	ppm	ASTM D5185m	2040	<u> </u>	2656	3259
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	4	6
Sodium	ppm	ASTM D5185m		4	8	7
Potassium	ppm	ASTM D5185m	>20	9	22	40
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.2	0
Nitration	Abs/cm	*ASTM D7624	>20	4.7	10.1	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>48.5</b>	22.0	21.3
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>△</b> 63.7	17.2	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>△</b> -0.3	6.1	5.2



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No. : GFL0125244 Lab Number : 06224231 Unique Number : 11102428

Received : 28 Jun 2024 **Tested** 

: 01 Jul 2024 Diagnosed : 01 Jul 2024 - Angela Borella

7213 East Mount Houston Road Houston, TX US 77050

Contact: TECHNICIAN ACCOUNT

wcgfldemo@gmail.com

Test Package : FLEET 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: