

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**WEAR** 



Machine Id 934062

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (

### **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

Piston, ring and cylinder wear is indicated.

#### 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.

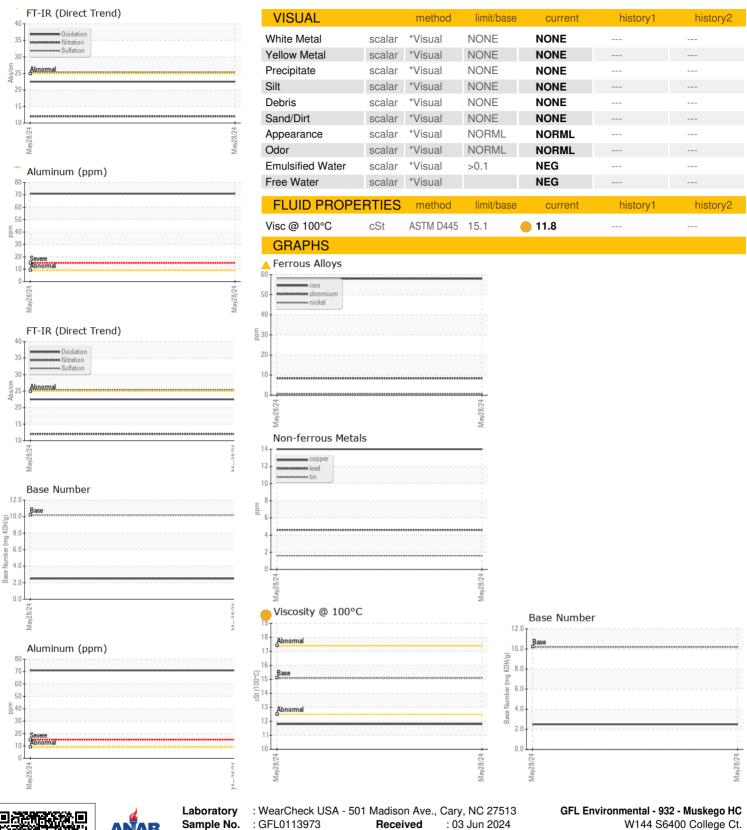
### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

GAL)			1	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number	1011	Client Info		GFL0113973		
		Client Info		28 May 2024		
ample Date  Machine Age	bro	Client Info		1114		
	hrs	Client Info		1114		
Oil Age	1115	Client Info				
Oil Changed		Client inio		Changed ABNORMAL		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Vater		WC Method	>0.1	NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
on	ppm	ASTM D5185m	>50	<b>▲</b> 58		
hromium	ppm	ASTM D5185m	>4	<u>^</u> 8		
lickel	ppm	ASTM D5185m	>2	<1		
itanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Numinum	ppm	ASTM D5185m	>9	71		
.ead	ppm	ASTM D5185m	>30	5		
Copper	ppm	ASTM D5185m	>35	14		
in	ppm	ASTM D5185m	>4	2		
 /anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES	le le · · ·	method	limit/base	current	hiotorya	history2
ADDITIVES		memod	IIIIII/Dase		history1	HIStory2
Boron	ppm	ASTM D5185m	50	16		
Barium	ppm	ASTM D5185m	5	6		
Nolybdenum	ppm	ASTM D5185m	50	60		
Manganese	ppm	ASTM D5185m	0	5		
/lagnesium	ppm	ASTM D5185m	560	777		
Calcium	ppm	ASTM D5185m	1510	1238		
hosphorus	ppm	ASTM D5185m	780	765		
linc	ppm	ASTM D5185m	870	931		
Sulfur	ppm	ASTM D5185m	2040	2616		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	92		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	175		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1		
litration	Abs/cm	*ASTM D7624	>20	12.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.5		
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	2.5		
Jaco Harriber (DIN)	ing North	7.0 TW D2000	. 0.2	2.0		



## **OIL ANALYSIS REPORT**





Certificate 12367

Sample No.

: GFL0113973

Lab Number : 06197442 Unique Number : 11059565 Received : 03 Jun 2024 **Tested** 

: 05 Jun 2024

Diagnosed : 05 Jun 2024 - Jonathan Hester

Test Package: FLEET (Additional Tests: FUELDILUTION, PercentFuel) 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: GFL932 [WUSCAR] 06197442 (Generated: 06/05/2024 23:07:02) Rev: 1

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