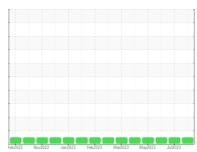


# **OIL ANALYSIS REPORT**

**Sample Rating Trend** 



NORMAL



Machine Id **731120** 

Component **Natural Gas Engine** 

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

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

### **Fluid Condition**

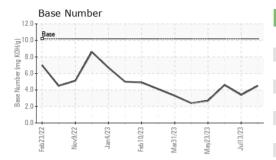
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

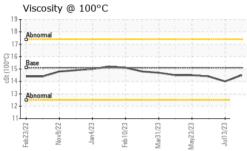
GAL)						
SAMPLE INFOR	MATION	method	Jan2023 Feb limit/base	2023 Marž023 Mayž023 Current	Jui2023 history1	history2
	IVIATION		IIIIIII Dase			
Sample Number		Client Info		GFL0087142	GFL0087169	GFL0083798
Sample Date		Client Info		11 Aug 2023	13 Jul 2023	15 Jun 2023
Machine Age	hrs	Client Info		5778	5588	5412
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	34	29	64
Chromium	ppm	ASTM D5185m	>4	3	2	1
Nickel	ppm	ASTM D5185m	>2	1	<1	3
Titanium	ppm	ASTM D5185m		<1	<1	3
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>9	5	3	5
Lead	ppm	ASTM D5185m	>30	3	18	3
Copper	ppm	ASTM D5185m	>35	1	2	16
Tin	ppm	ASTM D5185m	>4	1	1	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	9	7	11
Barium	ppm	ASTM D5185m	5	0	<1	2
Molybdenum	ppm	ASTM D5185m	50	58	62	51
Manganese	ppm	ASTM D5185m	0	2	1	7
Magnesium	ppm	ASTM D5185m	560	554	661	757
Calcium	ppm	ASTM D5185m	1510	1631	1805	1338
Phosphorus	ppm	ASTM D5185m	780	669	790	698
Zinc	ppm	ASTM D5185m	870	917	1069	981
Sulfur	ppm	ASTM D5185m	2040	2672	3049	2950
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	13	7	45
Sodium	ppm	ASTM D5185m		9	11	6
Potassium	ppm	ASTM D5185m	>20	3	1	13
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.8	11.9	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	25.0	23.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	20.2	19.2
			. =0			

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



## **OIL ANALYSIS REPORT**

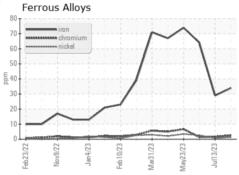


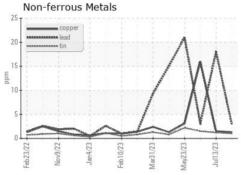


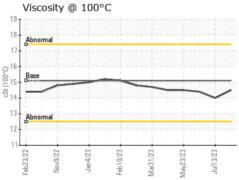
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

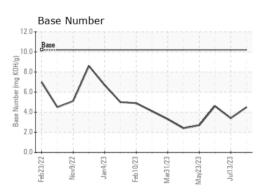
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.0	14.4

### **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number

: 05928002 Unique Number : 10607949 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0087142 Received : 18 Aug 2023

Diagnosed : 21 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Robert Hart rhart@gflenv.com

T: (580)461-1509

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)