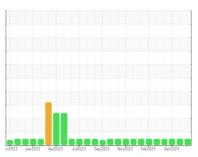


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 933022

**Natural Gas Engine** 

# PETRO CANADA DURON GEO LD 15W40 (--- 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 oil.

## **Fluid Condition**

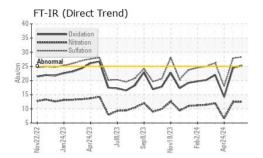
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

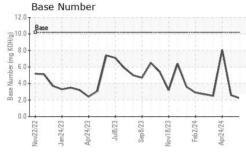
( GAL)		ov2022 Jan2	023 Apr2023 Jul2023	Sep2023 Nov2023 Feb2024	Apr2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124052	GFL0120202	GFL0117209
Sample Date		Client Info		26 Jun 2024	04 Jun 2024	24 Apr 2024
Machine Age	hrs	Client Info		4239	4079	3829
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	11	12	5
Chromium	ppm	ASTM D5185m	>4	1	1	0
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	9	9	1
Lead	ppm	ASTM D5185m	>30	19	19	0
Copper	ppm	ASTM D5185m	>35	11	10	0
Tin	ppm	ASTM D5185m	>4	<1	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	6	7	5
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	50	60	61	60
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	560	633	611	947
Calcium	ppm	ASTM D5185m	1510	1842	1683	1135
Phosphorus	ppm	ASTM D5185m	780	879	885	1044
Zinc	ppm	ASTM D5185m	870	1077	1058	1268
Sulfur	ppm	ASTM D5185m	2040	2943	2657	3706
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	11	12	2
Sodium	ppm	ASTM D5185m		5	5	4
Potassium	ppm	ASTM D5185m	>20	<1	7	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.2
Nitration	Abs/cm	*ASTM D7624	>20	12.5	12.4	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.3	27.9	17.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm		>25	25.3	24.5	14.2
D. M. C.	/100/.111111	101W D/T/4	12.0	20.0	27.0	17.6

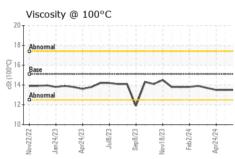
Base Number (BN) mg KOH/g ASTM D2896 10.2 2.2



# **OIL ANALYSIS REPORT**



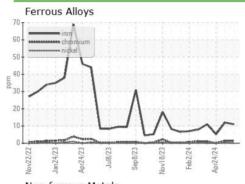


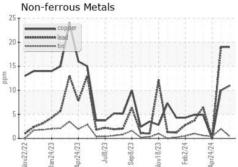


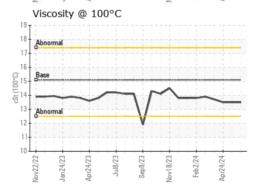
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

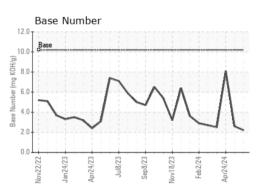
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	13.5	13.5	13.5

### **GRAPHS**













Certificate 12367

Laboratory Sample No. Unique Number : 11101406 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0124052 Lab Number : 06223209

Received **Tested** Diagnosed

: 28 Jun 2024 : 28 Jun 2024 : 30 Jun 2024 - Don Baldridge

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart

GFL Environmental - 836 - Kansas City Hauling

loyce.stewart@gflenv.com

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)

Report Id: GFL836 [WUSCAR] 06223209 (Generated: 06/30/2024 10:45:50) Rev: 1

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