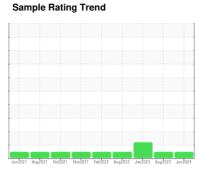


# **OIL ANALYSIS REPORT**

(YA156354) 930011

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

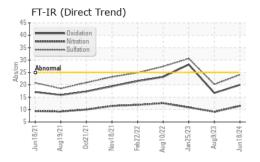
## **Fluid Condition**

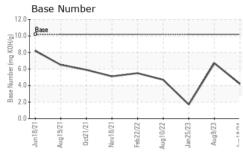
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

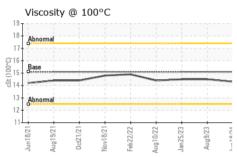
( GAL)  Junt021 Augt021 Oct021 Novi021 Febit022 Augt022 Jant023 Augt023 Junt024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123410	GFL0082463	GFL0050795
Sample Date		Client Info		18 Jun 2024	09 Aug 2023	25 Jan 2023
Machine Age	hrs	Client Info		7185	7185	6098
Oil Age	hrs	Client Info		7185	1087	1248
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
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	7	13	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	3	2
Lead	ppm	ASTM D5185m	>30	6	1	12
Copper	ppm	ASTM D5185m	>35	1	2	2
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	26	9
Barium	ppm	ASTM D5185m	5	0	0	2
Molybdenum	ppm	ASTM D5185m	50	54	53	51
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	620	617	587
Calcium	ppm	ASTM D5185m	1510	1877	1768	1480
Phosphorus	ppm	ASTM D5185m	780	848	826	760
Zinc	ppm	ASTM D5185m	870	1111	1024	900
Sulfur	ppm	ASTM D5185m	2040	3046	2907	2858
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	6	5
Sodium	ppm	ASTM D5185m		21	8	8
Potassium	ppm	ASTM D5185m	>20	4	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.5	9.1	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	20.2	30.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	16.7	28.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.2	6.7	<b>△</b> 1.7
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# **OIL ANALYSIS REPORT**



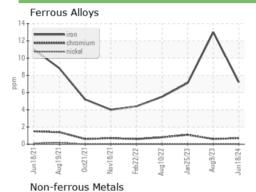


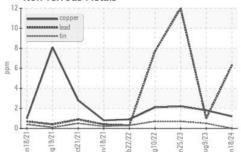


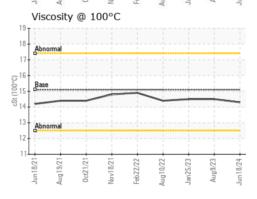
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

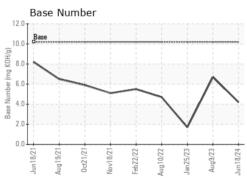
FLUID PROPERTIES		method			history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.5	14.5	

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06215687 Unique Number : 11088551

Test Package : FLEET

: GFL0123410

Received : 20 Jun 2024 **Tested** : 21 Jun 2024 Diagnosed

: 21 Jun 2024 - Wes Davis

GFL Environmental - 007 - Brunswick 2809 Galloway Road

Bolivia, NC US 28422

F: (910)253-4179

Contact: DONALD CRAVEN dcraven@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)

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