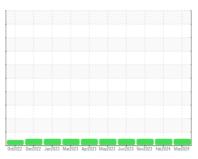


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id
913134

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**

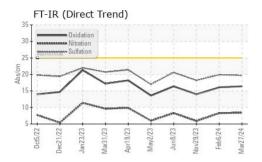
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

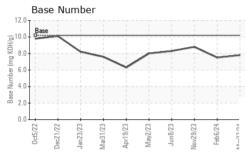
( GAL) Octorz Dwdozz Jandozz Mardozz Apudozz Mardozz Mardozz Mardozz Febdoz Mardoz Mar						
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106798	GFL0092186	GFL0084629
Sample Date		Client Info		27 Mar 2024	06 Feb 2024	29 Nov 2023
Machine Age	hrs	Client Info		5077	4590	3989
Oil Age	hrs	Client Info		600	0	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7	7	1
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	2	3	3
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>35	2	1	0
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	0	0	<1
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	61	61	59
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	560	1007	1007	987
Calcium	ppm	ASTM D5185m	1510	1101	1099	1049
Phosphorus	ppm	ASTM D5185m	780	967	1058	1111
Zinc	ppm	ASTM D5185m	870	1290	1314	1336
Sulfur	ppm	ASTM D5185m	2040	3401	3041	3285
CONTAMINAN <sup>*</sup>	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	4	2
Sodium	ppm	ASTM D5185m		1	1	<1
Potassium	ppm	ASTM D5185m	>20	2	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.3	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.3	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.9	18.2
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	16.1	14.0
Base Number (BNI)				7.0	7 -	0.0

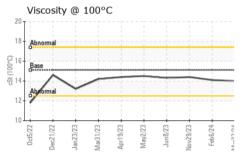
Base Number (BN) mg KOH/g ASTM D2896 10.2 7.8



## **OIL ANALYSIS REPORT**



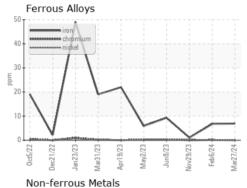


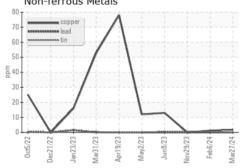


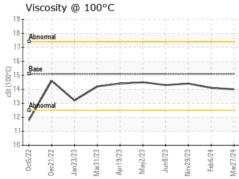
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

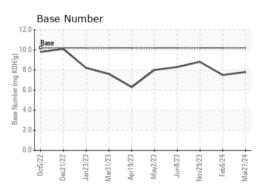
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.0	14.1	14.4	

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0106798 Lab Number : 06138403 Unique Number : 10963211

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Apr 2024 **Tested** 

: 05 Apr 2024 Diagnosed : 06 Apr 2024 - Don Baldridge

8515 Highway 6 South

US 77083 Contact: Apolinar Zacarias pzacariascano@gflenv.com

GFL Environmental - 856 - Houston South

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)

Houston, TX

T:

F: