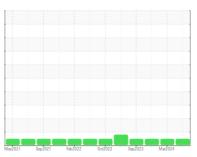


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 748002

Natural Gas Engine

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

# 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

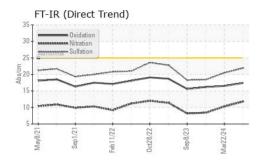
## **Fluid Condition**

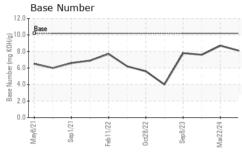
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

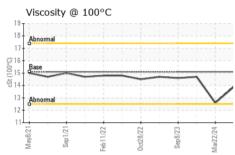
( LTR)		May2021	Sep2021 Feb2022	Oct2022 Sep2023 M	ar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119145	GFL0115478	GFL0106956
Sample Date		Client Info		03 Jul 2024	22 Mar 2024	16 Dec 2023
Machine Age	hrs	Client Info		14827	14169	13779
Oil Age	hrs	Client Info		658	390	577
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	20	21	0
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	3	2	2
Lead	ppm	ASTM D5185m	>30	1	2	0
Copper	ppm	ASTM D5185m	>35	2	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<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	5	4	21
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	58	60	46
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	560	783	886	580
Calcium	ppm	ASTM D5185m	1510	1276	1065	1419
Phosphorus	ppm	ASTM D5185m	780	980	1054	794
Zinc	ppm	ASTM D5185m	870	1171	1250	969
Sulfur	ppm	ASTM D5185m	2040	2725	3438	2464
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	3	2
Sodium	ppm	ASTM D5185m		27	17	2
Potassium	ppm	ASTM D5185m	>20	18	10	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.1	1.5	0
Nitration	Abs/cm	*ASTM D7624	>20	11.8	10.3	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	20.5	18.4
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.5	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.1	8.7	7.6
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# **OIL ANALYSIS REPORT**



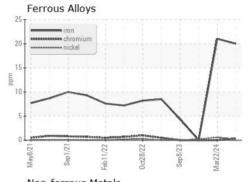


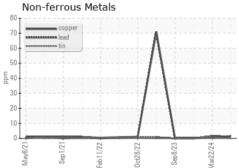


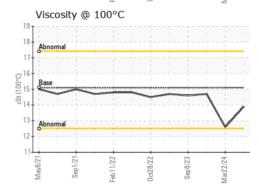
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

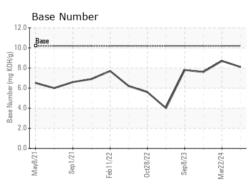
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	12.6	14.7

## **GRAPHS**













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06229990

: GFL0119145 Unique Number : 11113483

Received **Tested** 

: 09 Jul 2024 Diagnosed : 09 Jul 2024 - Wes Davis

: 08 Jul 2024

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL

US 32608 Contact: ROBERT CLARK robert.clark@gflenv.com

Test Package : FLEET 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: GFL882 [WUSCAR] 06229990 (Generated: 07/09/2024 10:40:32) Rev: 1

Submitted By: CARL MIMS

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