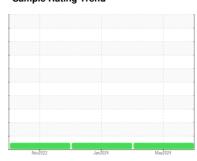


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **846000** 

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (---

## 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.

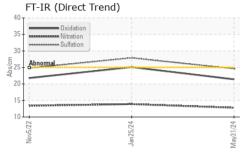
### **Fluid Condition**

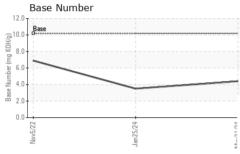
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

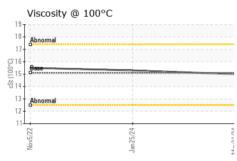
( GAL)		No	v2022	Jan2024 May20	124	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113975	GFL0086744	GFL0060630
Sample Date		Client Info		31 May 2024	25 Jan 2024	05 Nov 2022
Machine Age	hrs	Client Info		4245	3545	1012
Oil Age	hrs	Client Info		700	3545	1012
Oil Changed		Client Info		Changed	Changed	Not Changd
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	12	19	29
Chromium	ppm	ASTM D5185m	>4	<1	2	7
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	2
Aluminum	ppm	ASTM D5185m	>9	2	2	3
Lead	ppm	ASTM D5185m	>30	2	7	1
Copper	ppm	ASTM D5185m	>35	0	1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	14	10	14
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	50	57	65	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	612	688	631
Calcium	ppm	ASTM D5185m	1510	1668	1984	1651
Phosphorus	ppm	ASTM D5185m	780	840	918	788
Zinc	ppm	ASTM D5185m	870	1024	1137	1041
Sulfur	ppm	ASTM D5185m	2040	2847	2735	3044
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	6	7
Sodium	ppm	ASTM D5185m		9	17	2
Potassium	ppm	ASTM D5185m	>20	1	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.8	13.9	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	27.9	24.8
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.4	25.1	21.8
Base Number (BN)	mg KOH/g	ASTM D2896		4.4	3.5	6.9
= 3.00 · (DIV)	9				0.0	0.0

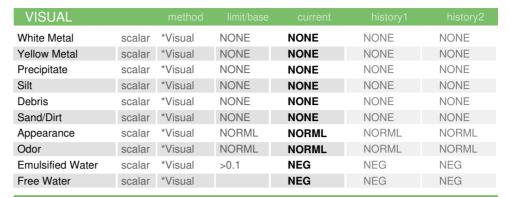


## **OIL ANALYSIS REPORT**



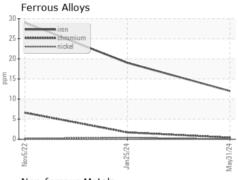


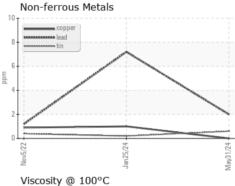


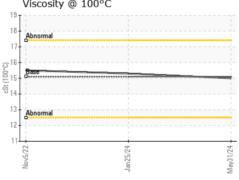


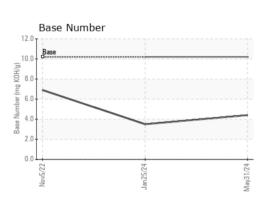
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	15.0	15.3	15.5

## **GRAPHS**













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0113975 Lab Number : 06201201 Unique Number : 11063324

Test Package : FLEET

Received **Tested** Diagnosed

: 06 Jun 2024 : 07 Jun 2024

: 07 Jun 2024 - Wes Davis

W144 S6400 College Ct. Muskego, WI US 53150

Contact: Brian Schlomann brian.schlomann@gflenv.com T: (262)510-4586

GFL Environmental - 932 - Muskego HC

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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: GFL932 [WUSCAR] 06201201 (Generated: 06/07/2024 06:41:11) Rev: 1

Submitted By: GFL932, GFL414 - BECKY FLETCHER