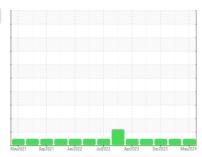


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 426085

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (

## 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**

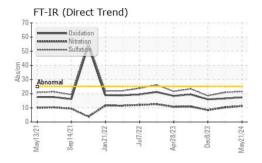
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

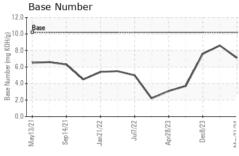
LTR)		May2021	Sep2021 Jan2022	Jul2022 Apr2023 Dec2023	May2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115470	GFL0106986	GFL0094272
Sample Date		Client Info		21 May 2024	14 Feb 2024	08 Dec 2023
Machine Age	hrs	Client Info		12167	20351	19951
Oil Age	hrs	Client Info		12167	400	548
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Nater		WC Method	>0.1	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	18	20	5
Chromium	ppm	ASTM D5185m	>4	0	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Fitanium -	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	<1	1
_ead	ppm	ASTM D5185m	>30	<1	<1	<1
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Γin	ppm	ASTM D5185m	>4	0	<1	<1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	2	26
Barium	ppm	ASTM D5185m	5	0	0	11
Molybdenum	ppm	ASTM D5185m	50	59	59	50
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
//agnesium	ppm	ASTM D5185m	560	818	838	546
Calcium	ppm	ASTM D5185m	1510	1289	998	1468
Phosphorus	ppm	ASTM D5185m	780	901	980	762
Zinc	ppm	ASTM D5185m	870	1154	1137	914
Sulfur	ppm	ASTM D5185m	2040	3074	2835	2714
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	3	3
Sodium	ppm	ASTM D5185m		24	19	4
Potassium	ppm	ASTM D5185m	>20	15	6	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1	1.5	0
Nitration	Abs/cm	*ASTM D7624	>20	11.3	10.3	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	20.9	18.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	16.6	16.0
Paga Number (PNI)		ACTM DOOG	10.0	7.1	0.6	7.6

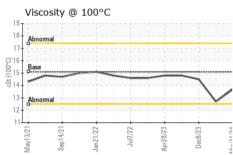
Base Number (BN) mg KOH/g ASTM D2896 10.2 7.1



# **OIL ANALYSIS REPORT**



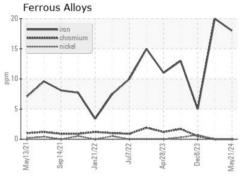


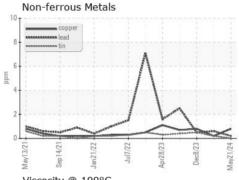


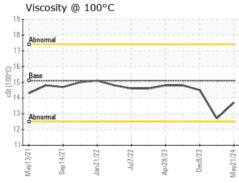
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

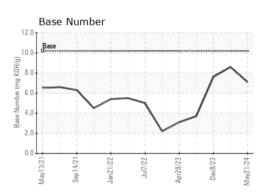
FLUID PROPI	EKITES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.1	13.7	12.7	14.5

### **GRAPHS**













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06191656

Test Package : FLEET

: GFL0115470 Unique Number : 11048408

Received : 24 May 2024 **Tested** : 29 May 2024 Diagnosed

: 29 May 2024 - Wes Davis

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK robert.clark@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: GFL882 [WUSCAR] 06191656 (Generated: 05/29/2024 01:02:17) Rev: 1

Submitted By: CARL MIMS

T:

F: