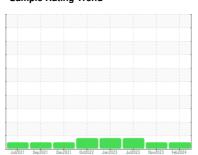


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



Machine Id **844007** 

Component **Natural Gas Engine** 

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

## 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

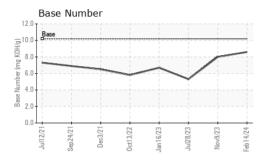
## **Fluid Condition**

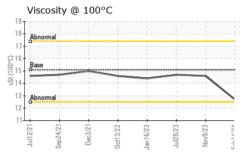
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

= 1111)		Jul2021 8	ep2021 Dec2021 Oct20	22 Jan 2023 Jul 2023 Nov 2023	Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106985	GFL0094243	GFL0085384
Sample Date		Client Info		14 Feb 2024	09 Nov 2023	28 Jul 2023
Machine Age	hrs	Client Info		22084	21535	1662
Oil Age	hrs	Client Info		549	2283	1662
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method				0.0
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	20	5	5
Chromium	ppm	ASTM D5185m	>4	0	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	<1	2	1
_ead	ppm	ASTM D5185m	>30	<1	<1	0
Copper	ppm	ASTM D5185m	>35	<1	1	<u>^</u> 82
Γin	ppm	ASTM D5185m	>4	<1	<1	0
/anadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	2	27	11
Barium	ppm	ASTM D5185m	5	0	<1	0
Molybdenum	ppm	ASTM D5185m	50	59	52	53
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	836	560	622
Calcium	ppm	ASTM D5185m	1510	1000	1499	1653
Phosphorus	ppm	ASTM D5185m	780	963	802	758
Zinc	ppm	ASTM D5185m	870	1131	950	1024
Sulfur	ppm	ASTM D5185m	2040	2831	2667	2869
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	2	3	3
Sodium	ppm	ASTM D5185m		19	2	5
Potassium	ppm	ASTM D5185m	>20	6	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.5	0	0
Vitration	Abs/cm	*ASTM D7624	>20	10.2	8.4	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	18.8	20.5
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.2	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.6	8.0	5.3
, ,	- 0					



## **OIL ANALYSIS REPORT**



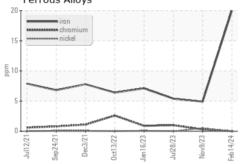


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

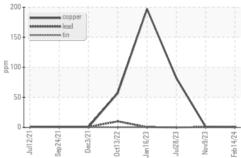
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	12.7	14.6	14.7	

## **GRAPHS**

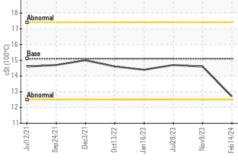
## Ferrous Alloys

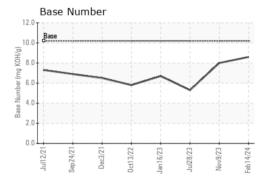
















Certificate L2367

Laboratory Sample No.

Lab Number : 06093971 Unique Number : 10886824 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0106985 Received : 20 Feb 2024

**Tested** : 21 Feb 2024 Diagnosed : 21 Feb 2024 - Don Baldridge

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)

T:

F: