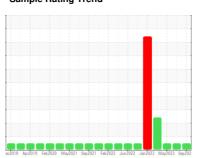


# **OIL ANALYSIS REPORT**

### Sample Rating Trend







Machine Id 3801C Component

**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

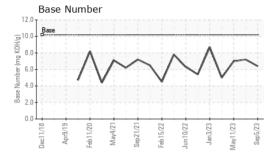
## **Fluid Condition**

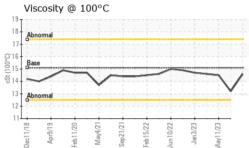
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

(46 GAL)							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0074447	GFL0080593	GFL0074427	
Sample Date		Client Info		05 Sep 2023	20 Jul 2023	11 May 2023	
Machine Age	hrs	Client Info		9310	9310	9310	
Oil Age	hrs	Client Info		9310	9310	9310	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	15	10	11	
Chromium	ppm	ASTM D5185m	>4	2	<1	2	
Nickel	ppm	ASTM D5185m	>2	<1	0	1	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m		2	1	4	
Lead	ppm	ASTM D5185m	>30	0	0	2	
Copper	ppm	ASTM D5185m		0	0	<1	
Tin	ppm	ASTM D5185m	>4	<1	0	1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	4	16	4	
Barium	ppm	ASTM D5185m	5	2	0	0	
Molybdenum	ppm	ASTM D5185m	50	64	53	64	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	560	965	647	920	
Calcium	ppm	ASTM D5185m	1510	1404	1642	1286	
Phosphorus	ppm	ASTM D5185m	780	1061	817	1015	
Zinc	ppm	ASTM D5185m	870	1289	1039	1312	
Sulfur	ppm	ASTM D5185m	2040	3446	3008	3747	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	6	4	6	
Sodium	ppm	ASTM D5185m		11	6	33	
Potassium	ppm	ASTM D5185m	>20	25	10	29	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.8	8.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	19.0	19.8	
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	16.4	15.6	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.4	7.2	7.0	



# **OIL ANALYSIS REPORT**

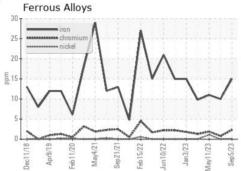


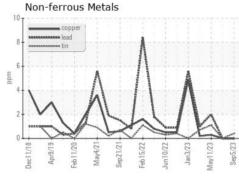


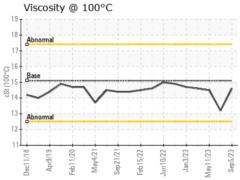
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

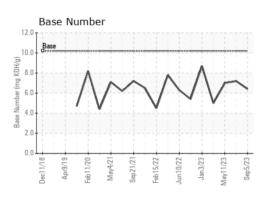
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	13.2	14.5	

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

**Unique Number** 

: GFL0074447 : 05943403

: 10634015

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Sep 2023 : 08 Sep 2023 Diagnosed

Diagnostician : Don Baldridge

GFL Environmental - 018 - Fayetteville 4621 Marracco Drive

Hope Mills, NC US 28348 Contact: Robert Carter robert.carter@gflenv.com

T: (910)596-1170

\* - 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)