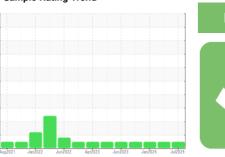


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id **727085-310038** 

Diesel 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

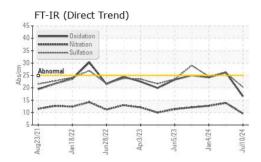
### **Fluid Condition**

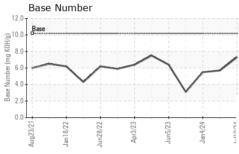
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

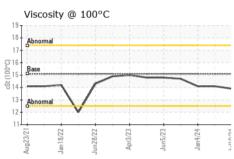
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096021	GFL0096051	GFL0095984
Sample Date		Client Info		10 Jul 2024	04 Apr 2024	04 Jan 2024
Machine Age	hrs	Client Info		17074	16633	16618
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	21	23	20
Chromium	ppm	ASTM D5185m	>5	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	76	0	0	0
Silver		ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5165III	>30	2	2	2
Lead	ppm					
	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	0	<1	
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	18	21	21
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	51	52	51
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	560	581	603	569
Calcium	ppm	ASTM D5185m	1510	1611	1711	1507
Phosphorus	ppm	ASTM D5185m	780	899	850	789
Zinc	ppm	ASTM D5185m	870	1061	1063	963
Sulfur	ppm	ASTM D5185m	2040	3178	3161	2329
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	9	8
Sodium	ppm	ASTM D5185m		74	5	12
Potassium	ppm	ASTM D5185m	>20	7	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.6	13.9	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	26.1	24.6
FLUID DEGRAD	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	26.2	24.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.3	5.7	5.5
					· · · ·	0.0



# **OIL ANALYSIS REPORT**



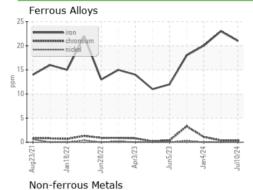


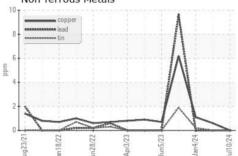


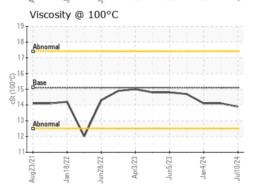
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

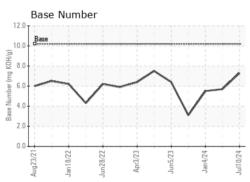
FLUID PROP	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	14.1	14.1

### **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06232936 Unique Number : 11116429

: GFL0096021 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jul 2024 **Tested** : 11 Jul 2024

Diagnosed : 11 Jul 2024 - Wes Davis

GFL Environmental - 883 - Orange City

1378 South Volusia Ave Orange City, FL US 32763

Contact: JEFF COOPERSMITH JCOOPERSMITH@GFLENV.COM T: (386)503-8468

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)