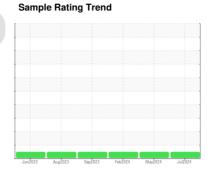


# **OIL ANALYSIS REPORT**



Area [GFL152] 933049 **Diesel Engine** 

PETRO CANADA DURON GEO LD 15W40 (8 GAL)





## 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

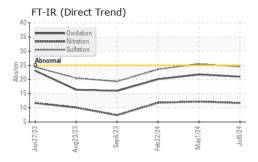
### **Fluid Condition**

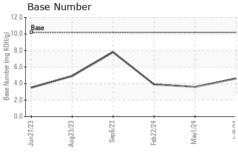
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

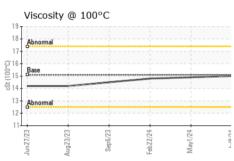
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106048	GFL0105943	GFL0106132
Sample Date		Client Info		08 Jul 2024	01 May 2024	22 Feb 2024
Machine Age	hrs	Client Info		2810	2810	2278
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>120	11	14	12
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	5	4
Lead	ppm	ASTM D5185m	>40	6	12	2
Copper	ppm		>330	2	2	2
Tin	ppm	ASTM D5185m	>15	0	1	<1
Vanadium	ppm	ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	PPIII	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	6	5	7
Barium	ppm	ASTM D5185m	5	0	0	0
		ASTM D5185m	50	54	59	58
Molybdenum	ppm	ASTM D5185m		<1	1	<1
Manganese	ppm					
Magnesium	ppm	ASTM D5185m	560	586	627	630
Calcium	ppm	ASTM D5185m	1510	1890	1791	1812
Phosphorus	ppm	ASTM D5185m	780	792	765	783
Zinc	ppm	ASTM D5185m	870	996	1018	1063
Sulfur	ppm	ASTM D5185m	2040	2776	2900	2618
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	6
Sodium	ppm	ASTM D5185m		10	10	9
Potassium	10 10 100	ASTM D5185m	<20	4	7	5
rotassium	ppm	AOTIVI DOTOSIII	>20	4	1	5
INFRA-RED	ррш	method	limit/base	current	history1	history2
	%					
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method *ASTM D7844	limit/base	current <b>0</b>	history1	history2
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method  *ASTM D7844  *ASTM D7624	limit/base >4 >20	current 0 11.7	history1 0.1 12.2	history2 0 11.8
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20 >30	current 0 11.7 24.5	history1 0.1 12.2 25.5	history2 0 11.8 23.6



# **OIL ANALYSIS REPORT**



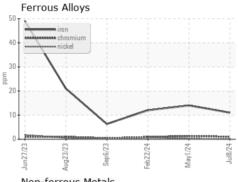


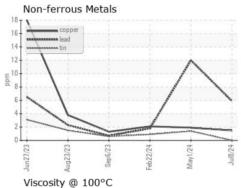


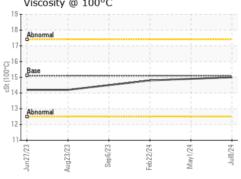
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

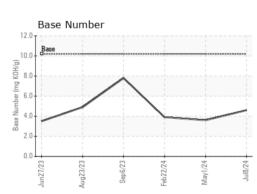
FLUID PROPERTIES		method			history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.1	15.0	14.9	14.8	

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0106048 Lab Number : 06234282 Unique Number : 11123116

Received **Tested** Diagnosed

: 11 Jul 2024 : 12 Jul 2024 : 12 Jul 2024 - Wes Davis

GFL Environmental - 152 - Jacksonville

7580 PHILIPS HWY Jacksonville, FL US 32256

Contact: Robert Clark

Test Package : FLEET 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: GFL152 [WUSCAR] 06234282 (Generated: 07/12/2024 16:51:46) Rev: 1

Submitted By: JOEL MEZA

T:

F: