

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend





## Component

Diesel Engine

## PETRO CANADA DURON GEO LD 15W40 (11 GAL)

### 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.

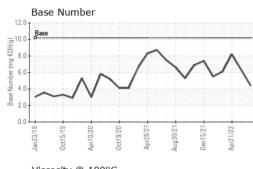
#### Fluid Condition

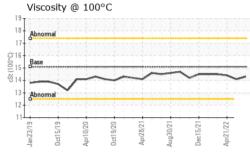
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

11 GAL)								
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0069758	GFL0069788	GFL0043337		
Sample Date		Client Info		19 Jul 2023	17 May 2023	21 Apr 2022		
Machine Age	hrs	Client Info		12437	9285	9285		
Oil Age	hrs	Client Info		12437	12041	157		
Oil Changed		Client Info		Changed	Changed	N/A		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2		
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METALS	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>75	9	9	5		
Chromium	ppm	ASTM D5185m	>5	1	1	<1		
Nickel	ppm	ASTM D5185m	>4	0	<1	0		
Titanium	ppm	ASTM D5185m	>2	0	<1	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>15	2	1	1		
Lead	ppm	ASTM D5185m	>25	0	0	<1		
Copper	ppm	ASTM D5185m	>100	<1	<1	<1		
Tin	ppm	ASTM D5185m	>4	0	<1	<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	6	11	30		
Barium	ppm	ASTM D5185m	5	<1	0	0		
Molybdenum	ppm	ASTM D5185m	50	61	58	43		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	560	660	588	503		
Calcium	ppm	ASTM D5185m	1510	1633	1493	1526		
Phosphorus	ppm	ASTM D5185m	780	783	792	702		
Zinc	ppm	ASTM D5185m	870	1067	999	887		
Sulfur	ppm	ASTM D5185m	2040	2998	2607	2065		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	4	4	3		
Sodium	ppm	ASTM D5185m		5	3	4		
	ppm	ASTM D5185m	>20	<1	2	0		
Potassium	ppin							
Potassium INFRA-RED	ppin	method	limit/base	current	history1	history2		
INFRA-RED	%			current 0.1	history1 0	history2 0		
INFRA-RED Soot %		method	limit/base					
INFRA-RED Soot % Nitration	%	method *ASTM D7844	limit/base >6	0.1	0	0		
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >6 >20	0.1 10.8	0 9.5	0 8.4		
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >6 >20 >30	0.1 10.8 22.0	0 9.5 19.6	0 8.4 20.1		

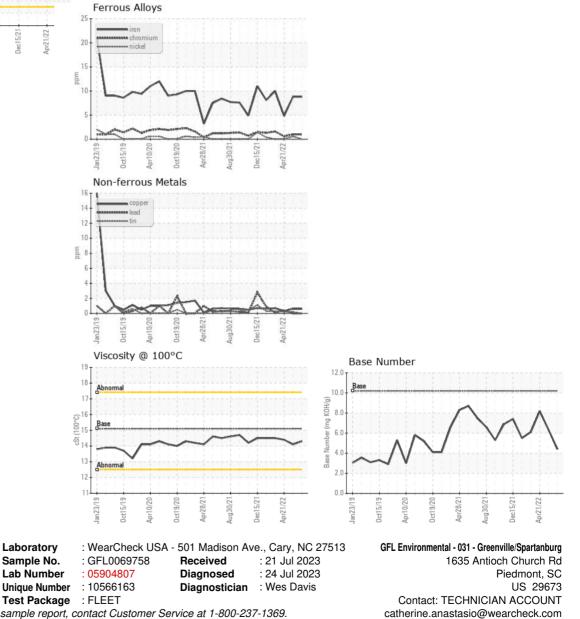


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.1	14.4
GRAPHS						





 Certificate L2307
 Test Package
 : FLEET
 Cont

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

 \* - 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)

Т:

F: