

### **OIL ANALYSIS REPORT**

Sample Rating Trend





# Machine Id 831052

Fluid

Component Diesel Engine

### PETRO CANADA DURON GEO LD 15W40 (--- 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.

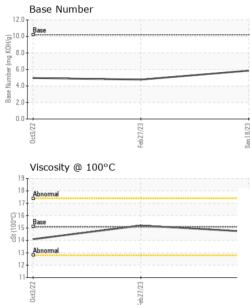
#### Fluid Condition

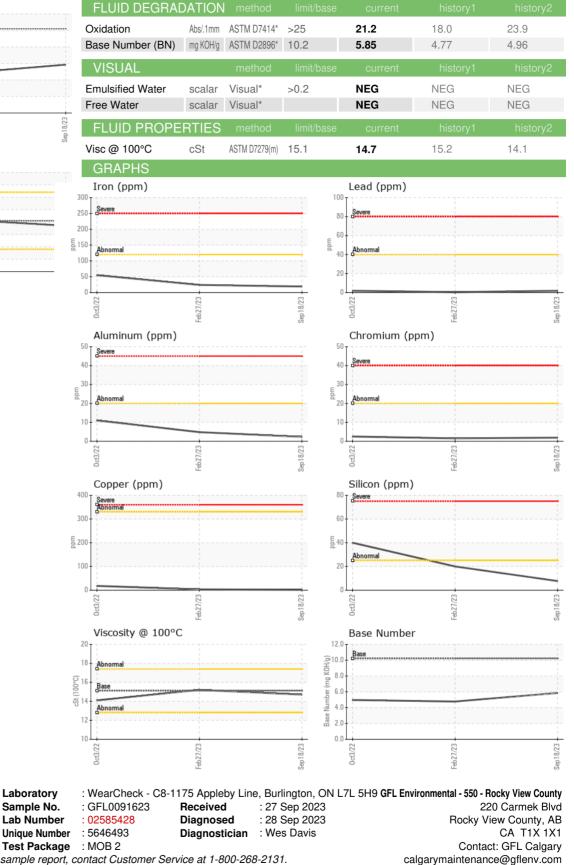
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091623	GFL0070721	GFL0060231
Sample Date		Client Info		18 Sep 2023	27 Feb 2023	03 Oct 2022
Machine Age	hrs	Client Info		46820	1750	1017
Oil Age	hrs	Client Info		18318	733	1017
Oil Changed		Client Info		Changed	N/A	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	19	24	55
Chromium	ppm	ASTM D5185(m)	>20	2	2	2
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	5
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	5	11
Lead	ppm	ASTM D5185(m)	>40	2	<1	2
Copper	ppm	ASTM D5185(m)	>330	2	3	18
Tin	ppm	ASTM D5185(m)	>15	<1	1	2
Antimony	ppm	ASTM D5185(m)		0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	10	8	7
Barium	ppm	ASTM D5185(m)	5	<1	0	3
Molybdenum	ppm	ASTM D5185(m)	50	58	55	57
Manganese	ppm	ASTM D5185(m)	0	<1	2	11
Magnesium	ppm	ASTM D5185(m)	560	627	574	750
Calcium	ppm	ASTM D5185(m)	1510	1740	1657	1288
Phosphorus	ppm	ASTM D5185(m)	780	786	735	790
Zinc	ppm	ASTM D5185(m)	870	988	907	923
Sulfur	ppm	ASTM D5185(m)	2040	2039	2044	2018
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	20	40
Sodium	ppm	ASTM D5185(m)		10	8	7
Potassium	ppm	ASTM D5185(m)	>20	1	5	14
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.3	11.1	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.0	24.7	27.2



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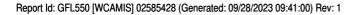


To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

> Submitted By: GFL Calgary Page 2 of 2

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