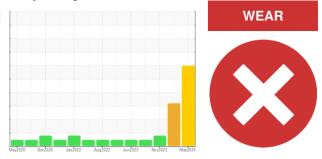


# **OIL ANALYSIS REPORT**

Sample Rating Trend



history?

**Diesel Engine** PETRO CANADA DURON SHP 15W40 (--- GAL)

SAMPLE INFORMATION method

## DIAGNOSIS Recommendation

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Machine Id 428008

### A Wear

Nickel ppm levels are severe. Exhaust valve wear is indicated.

#### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

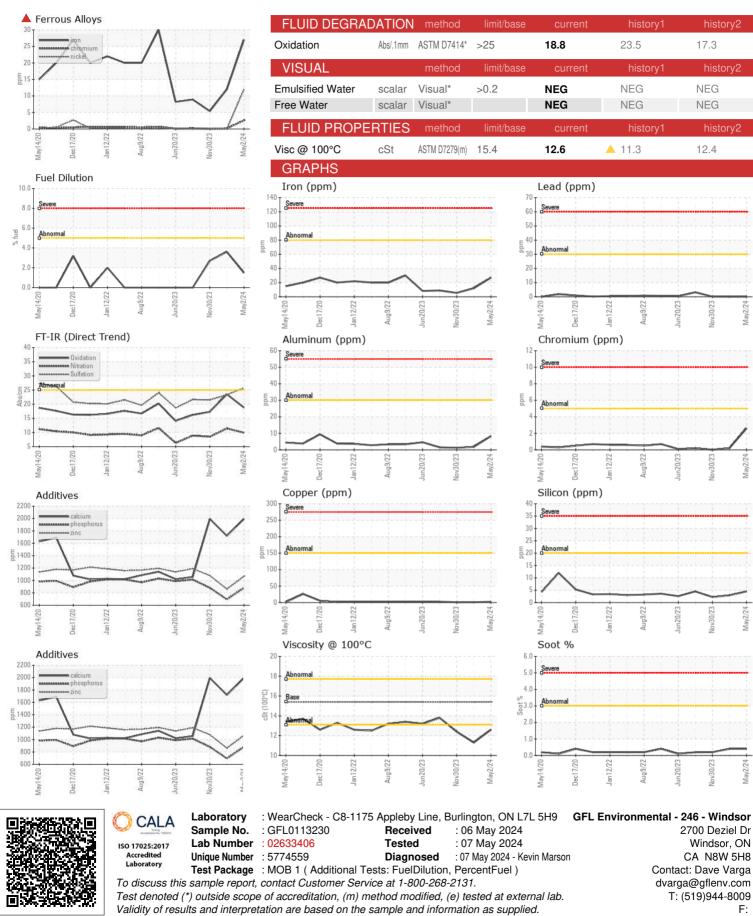
### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	/IA HON	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113230	GFL0113229	GFL0097313
Sample Date		Client Info		02 May 2024	15 Apr 2024	30 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		11901	11794	11219
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	MARGINAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
-						
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	27	12	5
Chromium	ppm	ASTM D5185(m)	>5	3	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<b>1</b> 2	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	8	2	1
Lead	ppm	ASTM D5185(m)	>30	0	0	<1
Copper	ppm	ASTM D5185(m)	>150	2	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
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)	0	32	42	116
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	13	36	3
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	159	375	23
Calcium	ppm	ASTM D5185(m)	1070	1993	0 1719	1994
Phosphorus	ppm	ASTM D5185(m)	1150	881	694	881
Zinc	ppm	ASTM D5185(m)	1270	1065	861	1078
Sulfur	ppm	ASTM D5185(m)	2060	2654	2124	2738
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4	3	2
Sodium	ppm	ASTM D5185(m)		5	1	2
Potassium	ppm	ASTM D5185(m)	>20	4	2	4
Fuel	%	ASTM D7593*	>5	1.5	<b>3</b> .6	▲ 2.7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.4	0.2
Nitration	Abs/cm	ASTM D7624*	>20	9.9	11.4	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.7	23.3	21.5



## **OIL ANALYSIS REPORT**



Report Id: GFL246 [WCAMIS] 02633406 (Generated: 05/07/2024 11:33:06) Rev: 1

Submitted By: Dave Varga Page 2 of 2

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