

## **OIL ANALYSIS REPORT**

### Sample Rating Trend



Machine Id

# **INTERNATIONAL 828111**

Component

Diesel Engine

PETRO CANADA DURON HP 15W40 (--- GAL)

### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

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

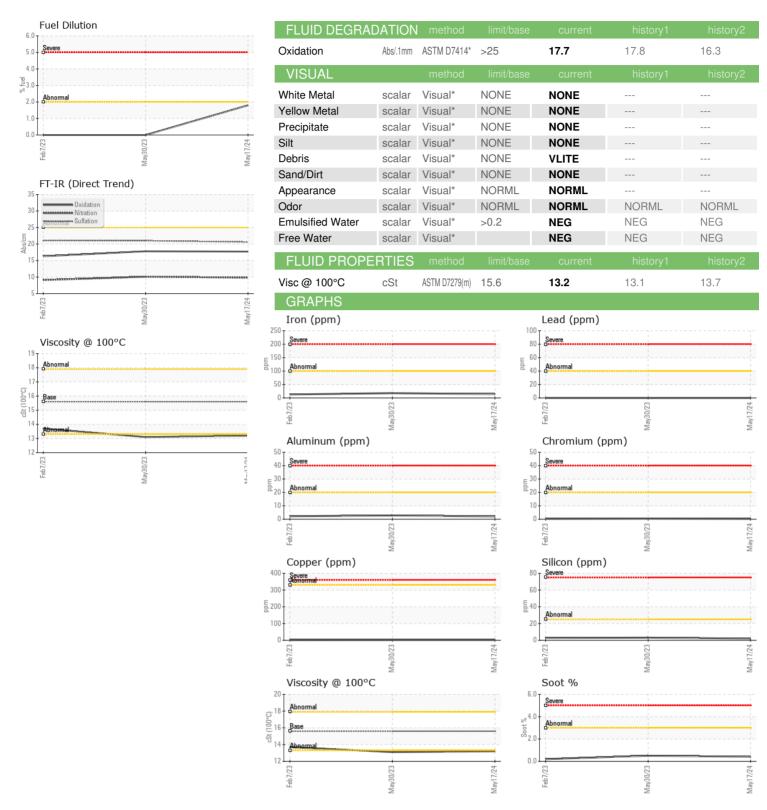
#### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

AL)		Feb 2023		May/2023 May/2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122276	GFL0082581	GFL0071116
Sample Date		Client Info		17 May 2024	30 May 2023	07 Feb 2023
Machine Age	kms	Client Info		13767	134615	124905
Oil Age	kms	Client Info		643	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	14	18	13
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	2
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)		1	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)	7.0	0	<1	<1
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	2	2	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	60	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	972	963	970
Calcium	ppm	ASTM D5185(m)	1070	1048	1102	1118
Phosphorus	ppm	ASTM D5185(m)	1150	974	1083	1107
Zinc	ppm	ASTM D5185(m)	1270	1188	1201	1219
Sulfur	ppm	ASTM D5185(m)	2060	2423	2579	2652
Lithium	ppm	ASTM D5185(m)	2000	<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Sodium	ppm	ASTM D5185(m)		1	4	1
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel	%	ASTM D7593*	>2.0	1.8	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.5	0.2
Nitration	Abs/cm	ASTM D7624*	>20	9.8	10.1	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	21.0	21.1



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 987 - Charlottetown

: GFL0122276 Lab Number : 02637367 Unique Number : 5786529

Received **Tested** 

: 27 May 2024 Diagnosed : 27 May 2024 - Wes Davis

: 24 May 2024

Test Package : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, Visual ) 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.

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7 Superior Crescent

Report Id: GFL987 [WCAMIS] 02637367 (Generated: 05/27/2024 11:29:56) Rev: 1

Contact/Location: Vicki Metcalfe - GFL987