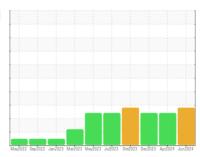


# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id
0547
Component
Diesel Engine

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

## **DIAGNOSIS**

#### Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

## Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

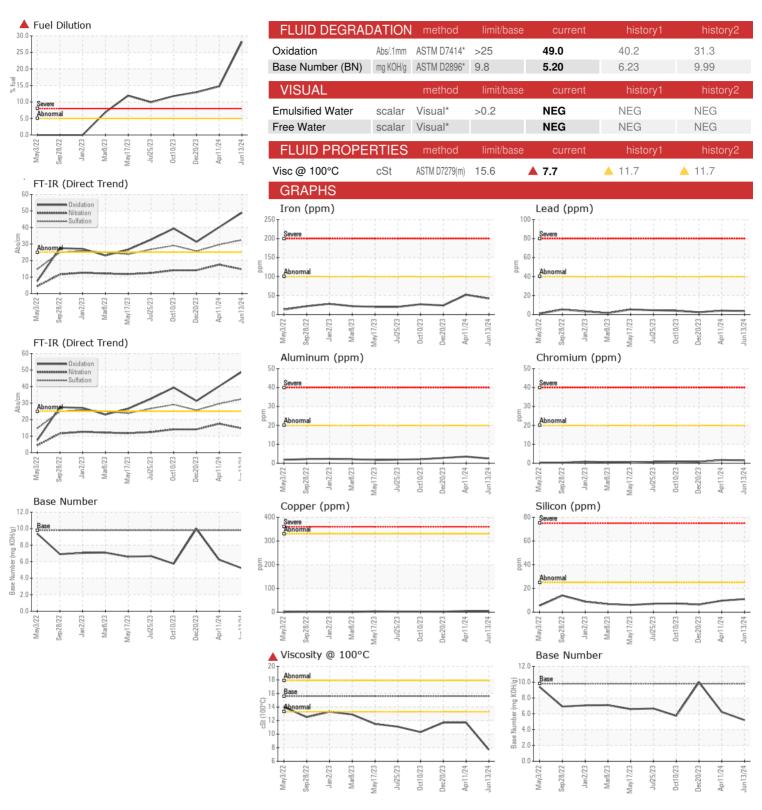
### ▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

,						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117254	GFL0117317	GFL0099536
Sample Date		Client Info		13 Jun 2024	11 Apr 2024	20 Dec 2023
Machine Age	kms	Client Info		368911	19566	349325
Oil Age	kms	Client Info		0	532	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	42	52	24
Chromium	ppm	ASTM D5185(m)	>20	2	2	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	4	3
Lead	ppm	ASTM D5185(m)	>40	4	4	2
Copper	ppm	ASTM D5185(m)	>330	4	5	2
Tin	ppm	ASTM D5185(m)	>15	2	3	1
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	3	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	37	47	48
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	574	767	767
Calcium	ppm	ASTM D5185(m)	1070	648	853	907
Phosphorus	ppm	ASTM D5185(m)	1150	594	793	844
Zinc	ppm	ASTM D5185(m)	1270	724	942	975
Sulfur	ppm	ASTM D5185(m)	2060	1427	1858	2140
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	11	10	6
Sodium	ppm	ASTM D5185(m)		2	3	1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	3
Fuel	%	ASTM D7593*	>5	▲ 28.2	<b>▲</b> 14.7	▲ 12.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.7	1	0.6
Nitration	Abs/cm	ASTM D7624*	>20	14.7	17.5	14.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	32.5	29.6	25.7



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0117254 Lab Number : 02644002

Unique Number : 5801541

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Received : 25 Jun 2024

**Tested** 

: 26 Jun 2024

: 26 Jun 2024 - Kevin Marson

Diagnosed Test Package : MOB 2 ( Additional Tests: PercentFuel )

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.

calgarymaintenance@gflenv.com

T: F: (403)369-6163

Rocky View County, AB

Contact: GFL Calgary

220 Carmek Blvd

**CA T1X 1X1** 

Validity of results and interpretation are based on the sample and information as supplied. Report Id: GFL550 [WCAMIS] 02644002 (Generated: 06/26/2024 14:44:32) Rev: 1

Submitted By: GFL Calgary