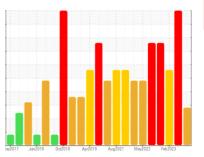


# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id
4586
Component
Diesel Engine

## PETRO CANADA DURON SHP 10W30 (--- GAL)

### DIAGNOSIS

#### ▲ Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

#### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is a high amount of fuel present in the oil. Test for glycol is negative. Tests confirm the presence of fuel in the oil.

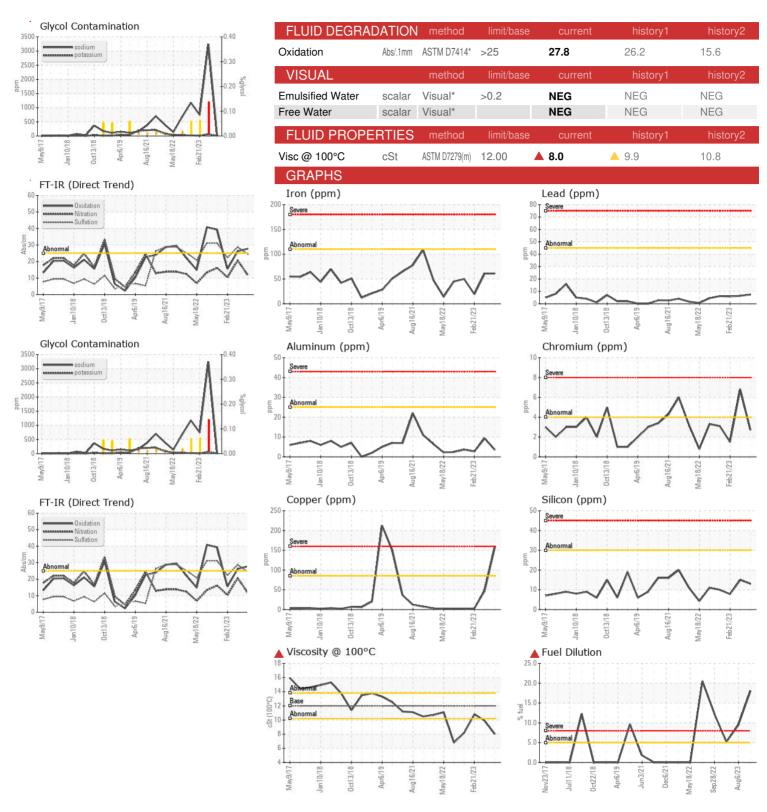
### ▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

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SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112519	GFL0090623	GFL0072859
Sample Date		Client Info		19 May 2024	06 Aug 2023	21 Feb 2023
Machine Age	hrs	Client Info		565	25969	25449
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	61	61	19
Chromium	ppm	ASTM D5185(m)	>4	3	<u>^</u> 7	2
Nickel	ppm	ASTM D5185(m)	>2	1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	4	9	3
Lead	ppm	ASTM D5185(m)	>45	8	6	6
Copper	ppm	ASTM D5185(m)	>85	158	47	3
Tin	ppm	ASTM D5185(m)	>4	1	1	<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)	2	3	2	3
Barium	ppm	ASTM D5185(m)	0	3	0	0
Molybdenum	ppm	ASTM D5185(m)	50	44	202	89
Manganese	ppm	ASTM D5185(m)	0	1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	708	798	937
Calcium	ppm	ASTM D5185(m)	1050	803	1019	1087
Phosphorus	ppm	ASTM D5185(m)	995	715	868	1075
Zinc	ppm	ASTM D5185(m)	1180	857	1030	1128
Sulfur	ppm	ASTM D5185(m)	2600	1565	2190	2543
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	13	15	8
Sodium	ppm	ASTM D5185(m)		6	3250	742
Potassium	ppm	ASTM D5185(m)	>20	3	<b>△</b> 62	<u>^</u> 6
Fuel	%	ASTM D7593*	>5	<b>18.1</b>	<b>▲</b> 9.5	<b>▲</b> 5.2
Glycol	%	ASTM D7922*		0.0	▲ 0.137	▲ 0.064
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	1.5	0.3
Nitration	Abs/cm	ASTM D7624*	>20	11.6	20.7	10.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.4	28.7	22.3



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0112519 Lab Number : 02638390 Unique Number : 5787552

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW Received : 29 May 2024 **Tested** 

: 30 May 2024 Diagnosed : 30 May 2024 - Kevin Marson

Test Package : MOB 1 ( 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. Validity of results and interpretation are based on the sample and information as supplied.

8409 -15th Street NW Edmonton, AB **CA T6P 0B8** Contact: Tim Greig tgreig@gflenv.com

T: (780)231-0521

Submitted By: Brian Gagne