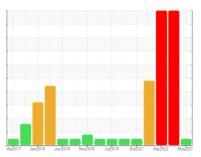


# **OIL ANALYSIS REPORT**

### Sample Rating Trend







Machine Id
4789
Component
Diesel Engine

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

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

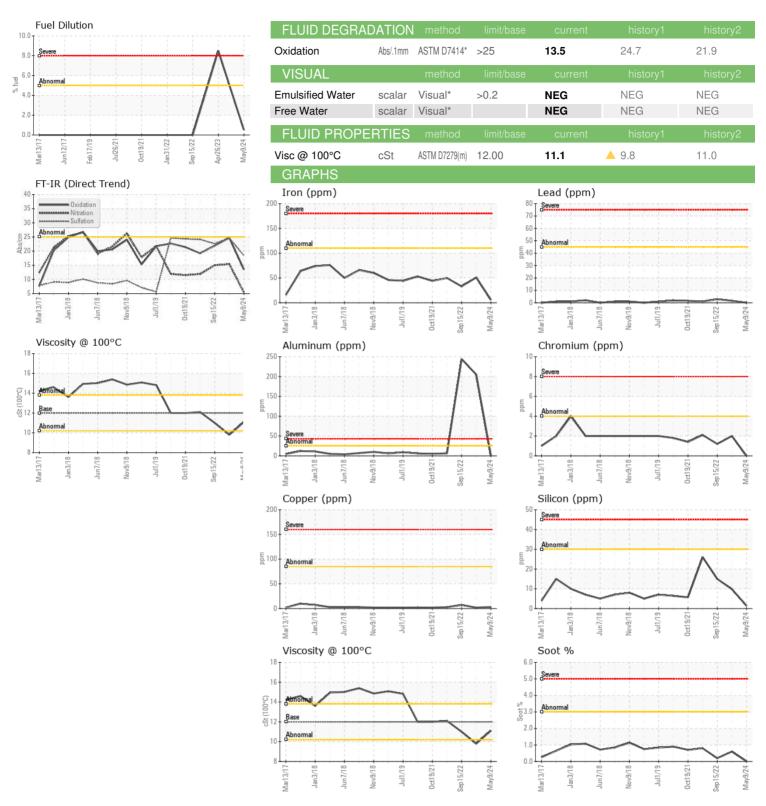
#### **Fluid Condition**

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

GAL)		War2017 Jan	2018 Jun2018 Nov201	8 Jul2019 Oct2021 Sep20	22 May202 <sup>4</sup>	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112494	GFL0077969	GFL0059991
Sample Date		Client Info		09 May 2024	26 Apr 2023	15 Sep 2022
Machine Age	hrs	Client Info		14616	18994	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	△ 0.024	△ 0.016
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	6	51	33
Chromium	ppm	ASTM D5185(m)	>4	0	2	1
Nickel	ppm	ASTM D5185(m)	>2	0	<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	<1	<b>2</b> 05	<b>2</b> 44
Lead	ppm	ASTM D5185(m)	>45	0	2	3
Copper	ppm	ASTM D5185(m)	>85	3	2	7
Tin	ppm	ASTM D5185(m)	>4	0	<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	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	52	92	95
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	867	790	779
Calcium	ppm	ASTM D5185(m)	1050	932	937	916
Phosphorus	ppm	ASTM D5185(m)	995	895	830	854
Zinc	ppm	ASTM D5185(m)	1180	1042	956	994
Sulfur	ppm	ASTM D5185(m)	2600	2311	2185	2236
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	1	10	15
Sodium	ppm	ASTM D5185(m)		2	874	1160
Potassium	ppm	ASTM D5185(m)	>20	2	<b>▲</b> 53	<b>▲</b> 88
Fuel	%	ASTM D7593*	>5	0.5	▲ 8.5	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0.6	0.2
Nitration	Abs/cm	ASTM D7624*	>20	5.4	15.4	15.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.4	24.6	22.6



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW

Lab Number : 02637114 Unique Number : 5786276

: GFL0112494 Received : 23 May 2024 **Tested** : 24 May 2024 Diagnosed : 24 May 2024 - Wes Davis

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.

Submitted By: Brian Gagne

8409 -15th Street NW

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Edmonton, AB

**CA T6P 0B8** 

Report Id: GFL554 [WCAMIS] 02637114 (Generated: 05/24/2024 10:05:07) Rev: 1