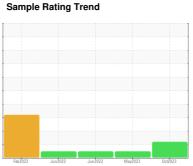


# **OIL ANALYSIS REPORT**

Samp



FUEL



Machine Id 811048 Component

**Diesel Engine** 

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

## **DIAGNOSIS**

### Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

Metal levels are typical for a new component breaking in.

## Contamination

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

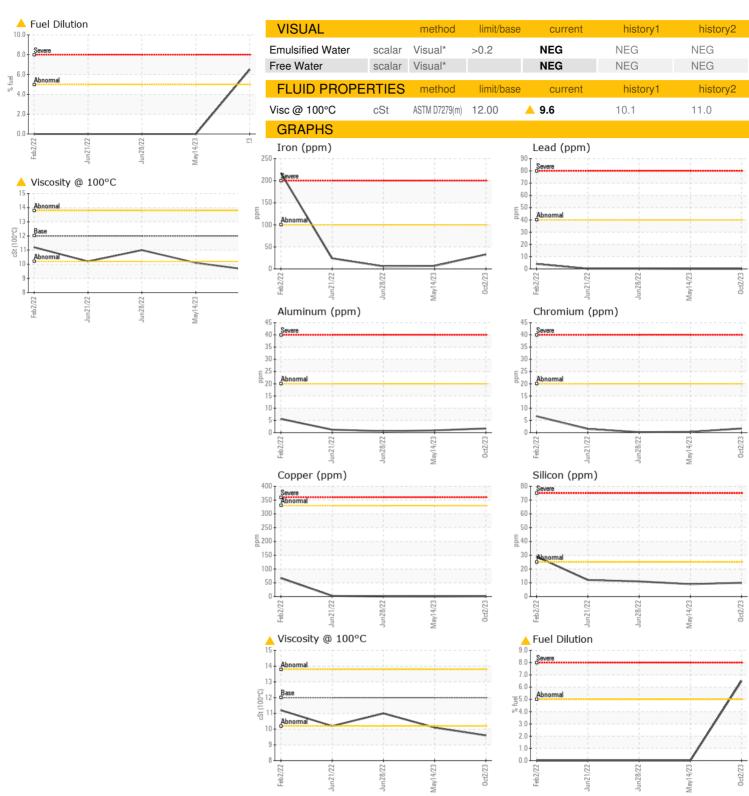
## Fluid Condition

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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GAL)		Feb2022	Jun2022	Jun2022 May2023	Oct2023	
SAMPLE INFORM	MATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0093891	GFL0077993	GFL0054156
Sample Date		Client Info		02 Oct 2023	14 May 2023	28 Jun 2022
Machine Age	kms	Client Info		89488	3769	0
Oil Age	kms	Client Info		0	0	0
Oil Changed	Tarro	Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	33	7	6
Chromium	ppm	ASTM D5185(m)	>20	2	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	<1	<1
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	<1	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	3
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	50	55	56	55
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	867	909	919
Calcium	ppm	ASTM D5185(m)	1050	932	1012	1064
Phosphorus	ppm	ASTM D5185(m)	995	908	1007	970
Zinc	ppm	ASTM D5185(m)	1180	1063	1103	1149
Sulfur	ppm	ASTM D5185(m)	2600	2190	2446	2624
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	10	9	11
Sodium	ppm	ASTM D5185(m)		5	3	2
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Fuel	%	ASTM D7593*	>5	<b>△</b> 6.5	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	11.4	7.3	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.4	20.1	20.3
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	27.8	18.0	15.3



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW : GFL0093891 Received : 16 Oct 2023 : 02589208 Diagnosed : 17 Oct 2023 : 5658274

Diagnostician : Kevin Marson **Test Package**: MOB 1 (Additional Tests: FuelDilution, 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

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