

OIL ANALYSIS REPORT

Machine Id **801069**

Component **Diesel Engine**

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

Sample Rating Trend

FUEL

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

All component wear rates are normal.

▲ 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.

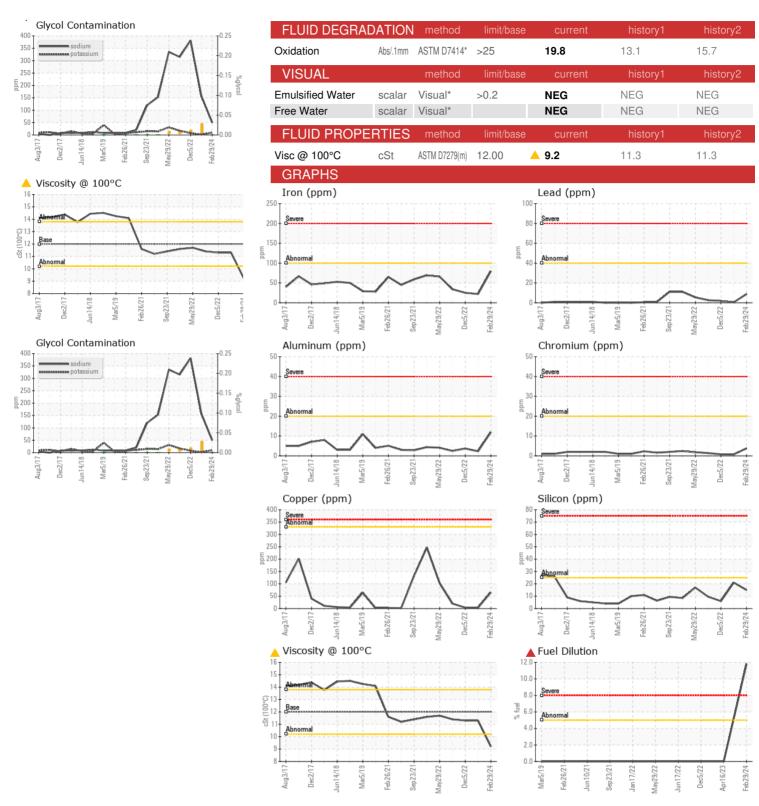
▲ Fluid Condition

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

-1R)		wg2017 Dec2	017 Jun2018 Mar2019	Feb 2021 Sep 2021 May 2022 Deci	022 Feb 202	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102666	GFL0077955	GFL0064073
Sample Date		Client Info		29 Feb 2024	16 Apr 2023	05 Dec 2022
Machine Age	hrs	Client Info		12743	11649	11089
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ATTENTION	ABNORMAL
CONTAMINAT	ION	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)	>100	80	22	25
Chromium	ppm	ASTM D5185(m)	>20	4	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<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	12	2	4
Lead	ppm	ASTM D5185(m)	>40	9	<1	2
Copper	ppm	ASTM D5185(m)	>330	65	4	4
Tin	ppm	ASTM D5185(m)	>15	2	<1	0
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	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	50	54	62	75
Manganese	ppm	ASTM D5185(m)	0	2	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	826	952	951
Calcium	ppm	ASTM D5185(m)	1050	952	1079	1109
Phosphorus	ppm	ASTM D5185(m)	995	812	1070	1051
Zinc	ppm	ASTM D5185(m)	1180	999	1155	1176
Sulfur	ppm	ASTM D5185(m)	2600	2104	2697	2632
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	15	21	6
Sodium	ppm	ASTM D5185(m)		49	158	381
Potassium	ppm	ASTM D5185(m)	>20	10	2	<u> 8</u>
Fuel	%	ASTM D7593*	>5	11.8	<1.0	<1.0
Glycol	%	ASTM D7922*		0.0	△ 0.028	△ 0.013
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	12.0	5.1	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.7	18.2	20.3



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory Sample No.

Lab Number : 02620089

Unique Number : 5737199

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW : GFL0102666 Received : 06 Mar 2024 : 07 Mar 2024 **Tested** Diagnosed

: 07 Mar 2024 - Wes Davis Test Package: MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

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

T: (780)231-0521

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.