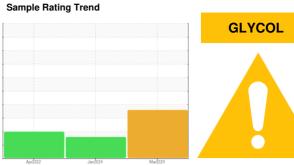


# **OIL ANALYSIS REPORT**

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Machine Id
351183
Component
Diesel Engine

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

### DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Test for glycol is positive. There is a light concentration of glycol present in the oil.

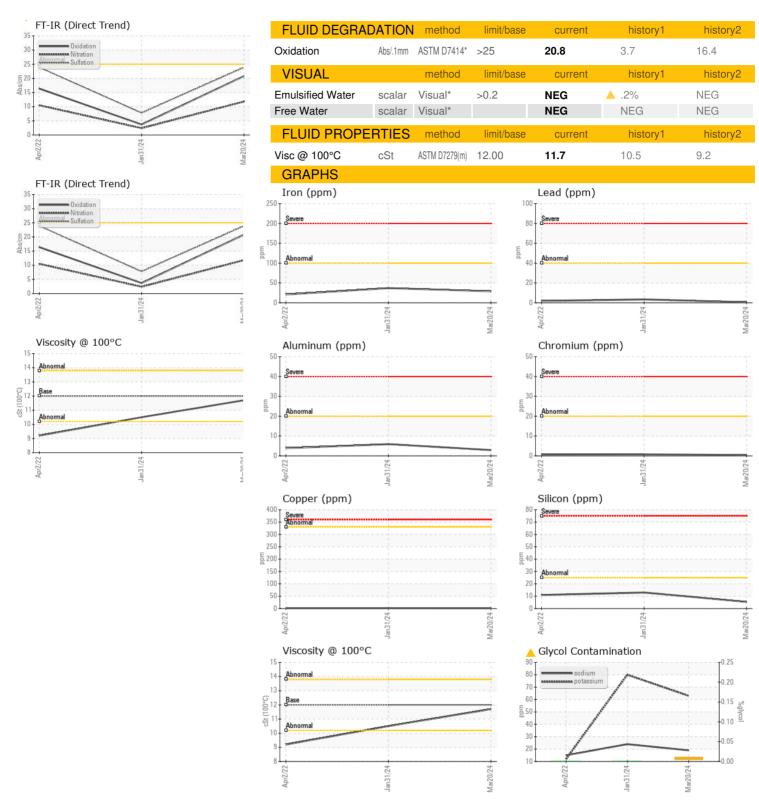
#### **Fluid Condition**

The oil is no longer serviceable due to the presence of contaminants.

-1H)		Apr	2022	Jan2024 Mar20	24	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096781	GFL0096843	GFL0039222
Sample Date		Client Info		20 Mar 2024	31 Jan 2024	02 Apr 2022
Machine Age	kms	Client Info		217808	212384	181282
Oil Age	kms	Client Info		0	5000	5000
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	MARGINAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<b>▲</b> 3.4
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	29	37	21
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	6	4
Lead	ppm	ASTM D5185(m)	>40	<1	3	2
Copper	ppm	ASTM D5185(m)	>330	1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
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	4	12	21
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	94	238	132
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	874	534	465
Calcium	ppm	ASTM D5185(m)	1050	1044	1273	1176
Phosphorus	ppm	ASTM D5185(m)	995	863	686	679
Zinc	ppm	ASTM D5185(m)	1180	1036	787	724
Sulfur	ppm	ASTM D5185(m)	2600	2162	1855	1737
Lithium	ppm	ASTM D5185(m)		<1	<1	0
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	13	11
Sodium	ppm	ASTM D5185(m)		19	24	15
Potassium	ppm	ASTM D5185(m)	>20	<b>△</b> 63	80	12
Glycol	%	ASTM D7922*		<u> </u>	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Soot % Nitration	% Abs/cm	ASTM D7844* ASTM D7624*	>3 >20	0 11.8	0 2.4	0 10.5



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 574 - Vancouver Fleet

: GFL0096781 Lab Number : 02631115 Unique Number : 5772268

Received : 24 Apr 2024 **Tested** Diagnosed

: 24 Apr 2024

: 24 Apr 2024 - Wes Davis

Coquitlam, BC CA V3K 6B5 Contact: Allison Adams aadams@gflenv.com T: (604)529-4023

Test Package : MOB 1 ( Additional Tests: Glycol ) 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.

70 Golden Drive,