

### **OIL ANALYSIS REPORT**

Sample Rating Trend

GLYCOL



Machine Id 8973 Component Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (20 LTR)

N SHP 15W40 (	20 LTR)	lov2013 Sep	2014 Apr2017 Feb2019	May2021 Nov2021 Sep2022	Apr2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116358	GFL0077473	GFL007150
Sample Date		Client Info		14 Mar 2024	11 Apr 2023	10 Jan 2023
Machine Age	kms	Client Info		191158	176315	173089
Oil Age	kms	Client Info		24946	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMA
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>90	35	68	73
Chromium	ppm	ASTM D5185(m)	>20	2	2	3
Nickel	ppm	ASTM D5185(m)	>2	<1	1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	5	4	4
_ead	ppm	ASTM D5185(m)	>40	5	1	2
Copper	ppm	ASTM D5185(m)	>330	3	2	2
Гin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)	0	2	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Volybdenum	ppm	ASTM D5185(m)	60	50	61	60
Vanganese	ppm	ASTM D5185(m)	0	0	<1	<1
Vagnesium	ppm	ASTM D5185(m)	1010	728	978	941
Calcium	ppm	ASTM D5185(m)	1070	819	1122	1107
Phosphorus	ppm	ASTM D5185(m)	1150	795	1073	1029
Zinc	ppm	ASTM D5185(m)	1270	928	1213	1167
Sulfur	ppm	ASTM D5185(m)	2060	2218	2413	2334
_ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	5	6
Sodium	ppm	ASTM D5185(m)		913	58	68 –
Potassium	ppm	ASTM D5185(m)	>20	4	<1	2
Fuel	%	ASTM D7593*	>3.0	<b>10.9</b>	<1.0	<1.0
Glycol	%	ASTM D7922*		<b>A</b> 0.011	0.0	▲ 0.095
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	3.6	<b>6</b> .9	4
Nitration	Abs/cm	ASTM D7624*	>20	15.6	28.3	11.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.0	66.0	22.2

# DIAGNOSIS Recommendation

We advise that you check the fuel injection system. We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

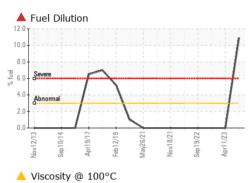
Test for glycol is positive. There is a high amount of fuel present in the oil. There is a light concentration of glycol present in the oil. Tests confirm the presence of fuel in the oil.

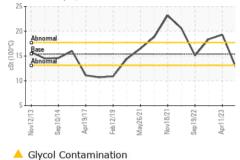
#### Fluid Condition

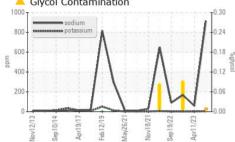
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

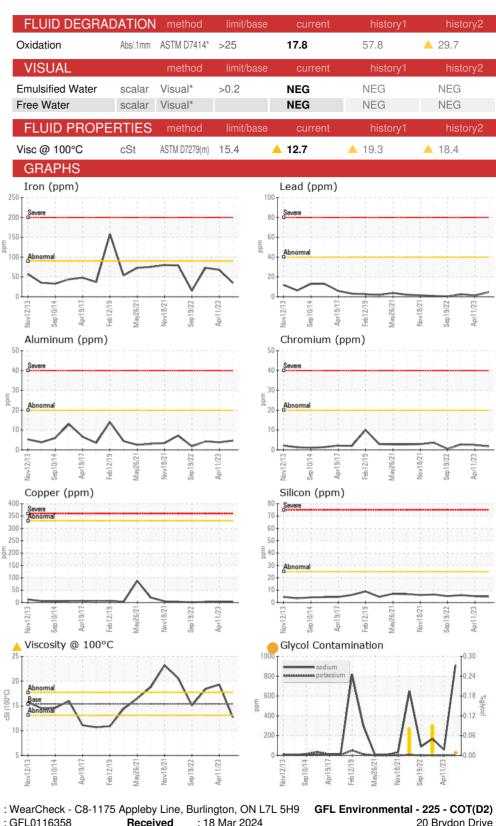


## **OIL ANALYSIS REPORT**









Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : GFL0116358 20 Brydon Drive Received : 18 Mar 2024 Lab Number : 02622558 : 19 Mar 2024 Tested Etobicoke, ON ISO 17025:2017 Accredited CA M9W 5R6 Unique Number : 5747677 Diagnosed : 19 Mar 2024 - Wes Davis Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel) Contact: Rick Philip To discuss this sample report, contact Customer Service at 1-800-268-2131. rphilip@gflenv.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (416)745-8080 Validity of results and interpretation are based on the sample and information as supplied. F: