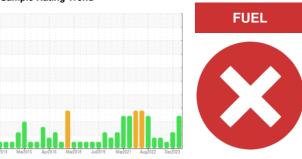


# **OIL ANALYSIS REPORT**

## Sample Rating Trend





Machine Id
4470
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (20 LTR)

## DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. 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

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

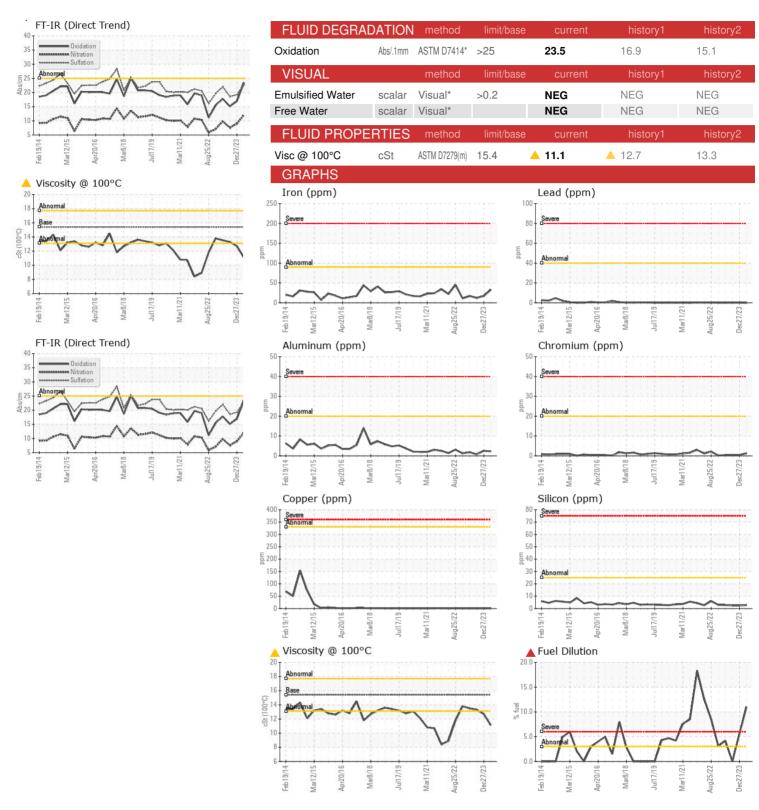
### ▲ Fluid Condition

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

N 3HP 15W40 (	20 LTN)	DZU14 MdIZ	uis Aprzuis Marzuio	Tulzo19 Malzoz1 Augzoz	2 00:2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0126212	GFL0097536	GFL0088948
Sample Date		Client Info		11 Jul 2024	27 Dec 2023	25 Sep 2023
Machine Age	hrs	Client Info		18397	17467	16925
Oil Age	hrs	Client Info		930	524	403
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>90	33	17	12
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	<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	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)	0	3	5	4
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	52	55	58
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	829	883	918
Calcium	ppm	ASTM D5185(m)	1070	894	998	1008
Phosphorus	ppm	ASTM D5185(m)	1150	834	930	982
Zinc	ppm	ASTM D5185(m)	1270	1019	1089	1141
Sulfur	ppm	ASTM D5185(m)	2060	2086	2422	2388
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	2	2
Sodium	ppm	ASTM D5185(m)		1	1	2
Potassium	ppm	ASTM D5185(m)	>20	<1	3	<1
Fuel	%	ASTM D7593*	>3.0	<b>▲</b> 11	▲ 5.6	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.7	0.4	0.2
Nitration	Abs/cm	ASTM D7624*	>20	12.1	9.0	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	19.2	18.6



# **OIL ANALYSIS REPORT**







Laboratory Sample No.

Unique Number : 5813338

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0126212 Lab Number : 02647786

Received : 15 Jul 2024 **Tested** 

: 16 Jul 2024 Diagnosed : 16 Jul 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.

GFL Environmental - 216 15 Bermondsey Road

Toronto, ON CA M4B 1Y9 Contact: Tom Hatzioannidis thatzioannidis@gflenv.com T: (416)678-9340