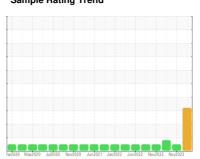


OIL ANALYSIS REPORT

Sample Rating Trend





RST9963

Component **Diesel Engine**

PETRO CANADA DURON UHP 5W40 (8 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.

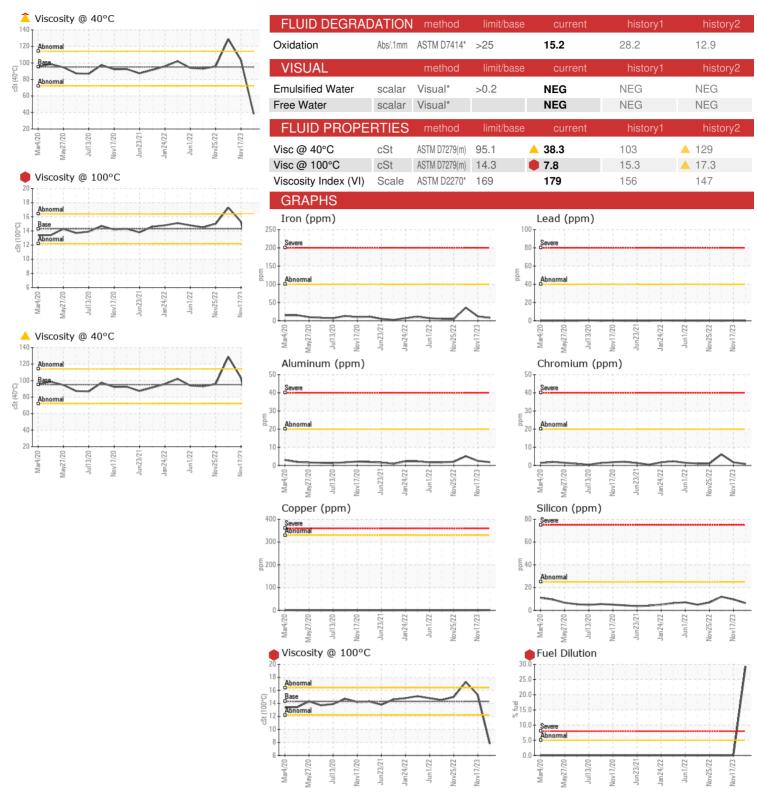
Fluid Condition

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

R)		1ar2020 May20	20 Jul2020 Nov2020 Ju	un2021 Jan2022 Jun2022 Nov2022	Nov2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0082050	PC0078376	PC0072944
Sample Date		Client Info		30 Jan 2024	17 Nov 2023	28 Mar 2023
Machine Age	hrs	Client Info		6023	5941	2920
Oil Age	hrs	Client Info		250	250	2000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	8	12	36
Chromium	ppm	ASTM D5185(m)	>20	<1	2	6
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	5
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
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)	65	35	28	42
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	37	58	67
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1160	724	1110	1263
Calcium	ppm	ASTM D5185(m)	820	539	834	1000
Phosphorus	ppm	ASTM D5185(m)	1160	673	978	1147
Zinc	ppm	ASTM D5185(m)	1260	772	1218	1385
Sulfur	ppm	ASTM D5185(m)	3000	1928	2709	2786
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	10	12
Sodium	ppm	ASTM D5185(m)		2	5	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	29.3	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	7.7	13.0	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	23.5	18.2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: Wear Check - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations : 02612730

: PC0082050

Recieved Diagnosed : 5721825

: 02 Feb 2024

Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

: 01 Feb 2024 151 Ram Forest Rd, Stouffville, ON

CA L4A 2G8 Contact: Shannon Abbott sabbott@gipi.com T: (905)750-5900

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.

F: