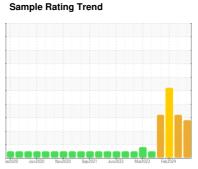


# **OIL ANALYSIS REPORT**





RST9963

Component **Diesel Engine** 

PETRO CANADA DURON UHP 5W40 (8 LTR)

## **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. 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.

TR) 16/2020 Jun/2020 Nov/2020 Spg/2021 Jun/2022 Feb/2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0078315	PC0078317	PC0078299
Sample Date		Client Info		22 Feb 2024	14 Feb 2024	09 Feb 2024
Machine Age	hrs	Client Info		6300	6249	9963
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINAT	ION	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	44	24
Chromium	ppm	ASTM D5185(m)	>20	<1	3	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	4	4
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	2
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	27	17	24
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	29	23	30
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1160	574	450	564
Calcium	ppm	ASTM D5185(m)	820	439	334	415
Phosphorus	ppm	ASTM D5185(m)	1160	536	394	510
Zinc	ppm	ASTM D5185(m)	1260	609	473	605
Sulfur	ppm	ASTM D5185(m)	3000	1529	1009	1409
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	5	7
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	▲ 38.4	▲ 59.6	<b>▲</b> 46.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	7.6	9.0	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.8	17.1	17.9



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Sample No.

Laboratory

: PC0078315 Lab Number : 02619159 Unique Number : 5736269

Test Package: MOB 1 (Additional Tests: KV40, PercentFuel, VI)

Received :01 Mar 2024 **Tested** : 04 Mar 2024 Diagnosed

: 04 Mar 2024 - Wes Davis

20.0 10.0 0.0

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