

OIL ANALYSIS REPORT

DR165

Component **Diesel Engine**

PETRO CANADA DURON UHP 5W40 (20 LT

Sample Rating Trend



DIAGNOSIS

Recommendation

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 moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

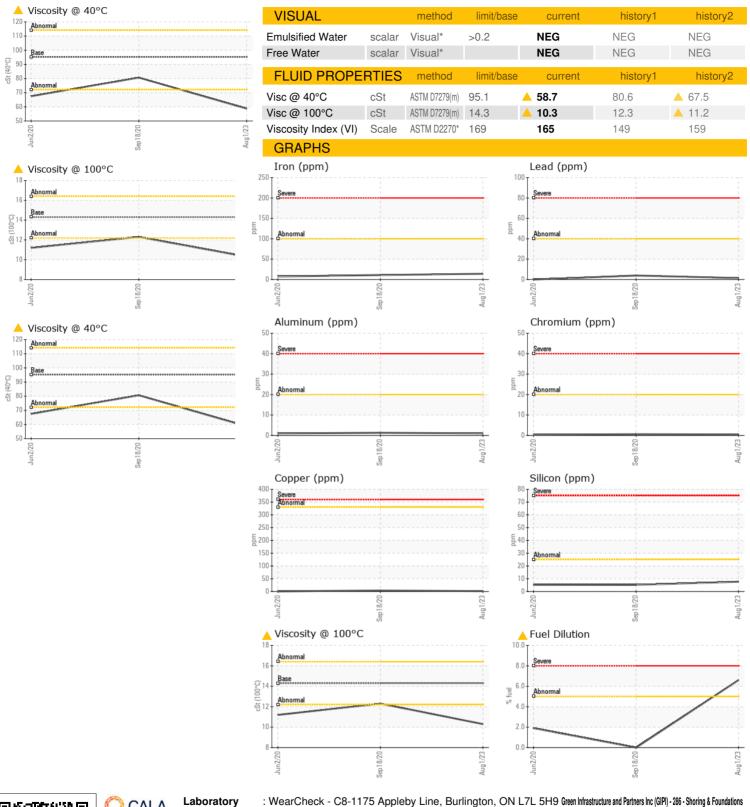
Fluid Condition

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

TR)		Jui	2020	Sep2020 Aug20	23	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0078033	PC0037423	PC0031234
Sample Date		Client Info		01 Aug 2023	18 Sep 2020	02 Jun 2020
Machine Age	hrs	Client Info		15045	14676	14410
Oil Age	hrs	Client Info		0	14410	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	14	11	7
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	1	0
Aluminum	ppm	ASTM D5185(m)	>20	1	1	1
Lead	ppm	ASTM D5185(m)	>40	1	4	0
Copper	ppm	ASTM D5185(m)	>330	1	4	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Antimony	ppm	ASTM D5185(m)		0	<1	<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)	65	44	17	53
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	57	46	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	1067	798	1136
Calcium	ppm	ASTM D5185(m)	820	843	1559	916
Phosphorus	ppm	ASTM D5185(m)	1160	1063	1101	1101
Zinc	ppm	ASTM D5185(m)	1260	1196	1269	1276
Sulfur Lithium	ppm	ASTM D5185(m) ASTM D5185(m)	3000	2772 <1	3119 <1	3078 <1
	ppm		lineit/lenene			
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	5	5
Sodium	ppm	ASTM D5185(m)	00	4	2	2
Potassium Fuel	ppm %	ASTM D5185(m) ASTM D7593*	>20 >5	1 <u>6.6</u>	<1 <1.0	<1 1.9
INFRA-RED	70	method	limit/base	current	history1	history2
	0/					
Soot %	%	ASTM D7844*	>3	0.1	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	8.9	7.9	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	20.4	24.5
FLUID DEGRA			limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.2	16.3	17.1



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: PC0078033 : 02578741 : 5631801

Received Diagnosed

: 28 Aug 2023 : 29 Aug 2023 Diagnostician : Wes Davis

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

151 Ram Forest Rd, Stouffville, ON CA L4A 2G8 Contact: Shannon Abbott

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.

sabbott@gipi.com T: (905)750-5900