

OIL ANALYSIS REPORT

HE1059

Component **Diesel Engine**

PETRO CANADA DURON UHP 5W40 (--- L7

Sample Rating Trend **FUEL**

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. Please specify the component make and model with your next sample.

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)						
•				Apr2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0075306		
Sample Date		Client Info		18 Apr 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	22		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	7		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	2		
Tin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium Cadmium	ppm	ASTM D5185(m) ASTM D5185(m)		0		
	ppm	ASTIVI DSTOS(III)				
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	65	15		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	65	53		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	1160	872		
Calcium	ppm	ASTM D5185(m)	820	1197		
Phosphorus	ppm	ASTM D5185(m)	1160	1059		
Zinc	ppm	ASTM D5185(m)	1260	1186		
Sulfur	ppm	ASTM D5185(m) ASTM D5185(m)	3000	2536		
Lithium	ppm	A5 I IVI D3 163(III)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	13		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	1		
Fuel	%	ASTM D7593*	>5	8.6		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	9.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8		
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.5		



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: PC0075306

: 02555707 : 5568722

Received Diagnosed

Diagnostician : Wes Davis

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

: 05 May 2023 : 08 May 2023

Stouffville, ON CA L4A 2G8 Contact: Bill Acton bacton@gipi.com

151 Ram Forest Rd,

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:

Contact/Location: Bill Acton - GFL286

T: