

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

Machine Id 501028 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL

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.

GAL)		L		May2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
	100711011	Client Info	mm bacc	GFL0118579		
Sample Number		Client Info				
Sample Date	hvo	Client Info		21 May 2024		
Machine Age Oil Age	hrs	Client Info		0		
-	1115	Client Info		N/A		
Oil Changed Sample Status		Ciletit IIIIO		SEVERE		
· ·				SEVENE		
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	12		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	1		
Lead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	<1		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	71		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	60	66		
Manganese	ppm	ASTM D5185(m)	0	<1		
Magnesium	ppm	ASTM D5185(m)	1010	776		
Calcium	ppm	ASTM D5185(m)	1070	1154		
Phosphorus	ppm	ASTM D5185(m)	1150	779		
Zinc	ppm	ASTM D5185(m)	1270	919		
Sulfur	ppm	ASTM D5185(m)	2060	2167		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	2		
Fuel	%	ASTM D7593*	>2.0	▲ 8.1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3		
Nitration	Abs/cm	ASTM D7624*	>20	11.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0		
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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02639576 Unique Number : 5788738

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 310 - Winnipeg : GFL0118579

Received **Tested** Diagnosed

: 04 Jun 2024 : 06 Jun 2024

: 06 Jun 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

#360 - 555 Hervo Street, Winnipeg, MB CA R3T 3L6 Contact: Joshua Lourenco jlourenco@gflenv.com T: (204)987-9600

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.