

OIL ANALYSIS REPORT



Machine Id

801186

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0024395		
Sample Date		Client Info		13 Jun 2021		
Machine Age	hrs	Client Info		183197		
Oil Age	hrs	Client Info		6000		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	51		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>4	- <1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	4		
Lead	ppm	ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)	>330	65		
Tin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		<1		
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	4		
Barium	ppm	ASTM D5185(m)	0	<1		
Molybdenum	ppm	ASTM D5185(m)	60	51		
Manganese	ppm	ASTM D5185(m)	0	1		
Magnesium	ppm	ASTM D5185(m)	1010	803		
Calcium	ppm	ASTM D5185(m)	1070	1014		
Phosphorus	ppm	ASTM D5185(m)	1150	842		
Zinc	ppm	ASTM D5185(m)	1270	1097		
Sulfur	ppm	ASTM D5185(m)	2060	1994		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	9		
Sodium	ppm	ASTM D5185(m)		8		
Potassium	ppm	ASTM D5185(m)	>20	3		
Fuel	%	ASTM D7593*	>5	& 8.1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9		
Nitration	Abs/cm	ASTM D7624*	>20	14.6		
Sulfation	Abs/.1mm	ASTM D7415*	>30	29.1		



40

35

4ps/cm 25

20

15

10

20

CSt (

12

45

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9 2! 21

> 15 10

Abnorm

Abnormal

FT-IR (Direct Trend)

Oxidation

Nitration

Sulfatio

🔺 Viscosity @ 100°C

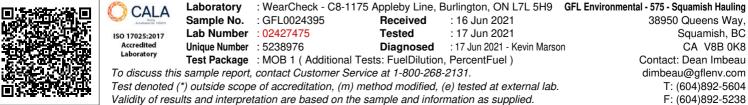
FT-IR (Direct Trend)

Oxidation

Sulfatio

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