

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 8832 Component

Diesel Engine

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

Metal levels are typical for a new component breaking in.

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	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0025601	GFL0014435	GFL0014409
Sample Date		Client Info		09 Jun 2021	11 Mar 2021	18 Dec 2020
Machine Age	hrs	Client Info		30297	29764	500
Oil Age	hrs	Client Info		500	500	500
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	12	14	35
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	3	7
Lead	ppm	ASTM D5185(m)	>40	1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	4	2	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
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)	0	1	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	42	57	58
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	665	943	849
Calcium	ppm	ASTM D5185(m)	1070	735	1051	1048
Phosphorus	ppm	ASTM D5185(m)	1150	696	952	759
Zinc	ppm	ASTM D5185(m)	1270	867	1221	1107
Sulfur	ppm	ASTM D5185(m)	2060	1772	2598	2431
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	4	8
Sodium	ppm	ASTM D5185(m)		155	91	▲ 564
Potassium	ppm	ASTM D5185(m)	>20	2	10	10
Fuel	%	ASTM D7593*	>2.0	e 18.3	2 .4	2 .8
Glycol	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	11.4	8.9	11.7



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