

OIL ANALYSIS REPORT

Area [1149444] Machine Id 800029

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (20 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

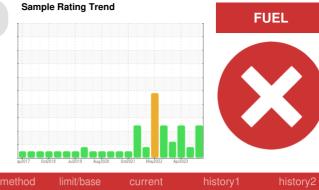
All component wear rates are normal.

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.



		302017 000	2010 002010 Mug.	1020 00202, MOYLOLL P		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089025	GFL0082953	GFL0077825
Sample Date		Client Info		22 Sep 2023	02 Jul 2023	10 Apr 2023
Machine Age	hrs	Client Info		15133	14651	14012
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	SEVERE
WEAR METALS	\$	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	31	39	31
Chromium	ppm	ASTM D5185(m)	>5	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>15	3	3	2
Lead	ppm	ASTM D5185(m)	>25	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	<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	2	4	6
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	55	55	54
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	860	868	845
Calcium	ppm	ASTM D5185(m)	1070	946	927	980
Phosphorus	ppm	ASTM D5185(m)	1150	857	950	950
Zinc	ppm	ASTM D5185(m)	1270	1056	1068	1035
Sulfur	ppm	ASTM D5185(m)	2060	2173	2168	2252
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ſS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	13	12
Sodium	ppm	ASTM D5185(m)		12	12	14
Potassium	ppm	ASTM D5185(m)	>20	6	4	2
Fuel	%	ASTM D7593*	>3.0	• 7.9	▲ 7.1	9.7
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.7	0.8	0.4
Nitration	Abc/om	ASTM D762//*	> 20	12 1	1/ 0	12.6

Soot %	%	ASTM D7844*	>6	0.7	0.8	0.4
Nitration	Abs/cm	ASTM D7624*	>20	13.1	14.2	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.6	28.6	26.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT

