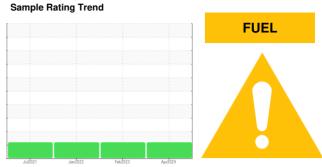


OIL ANALYSIS REPORT



Machine Id 201019

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

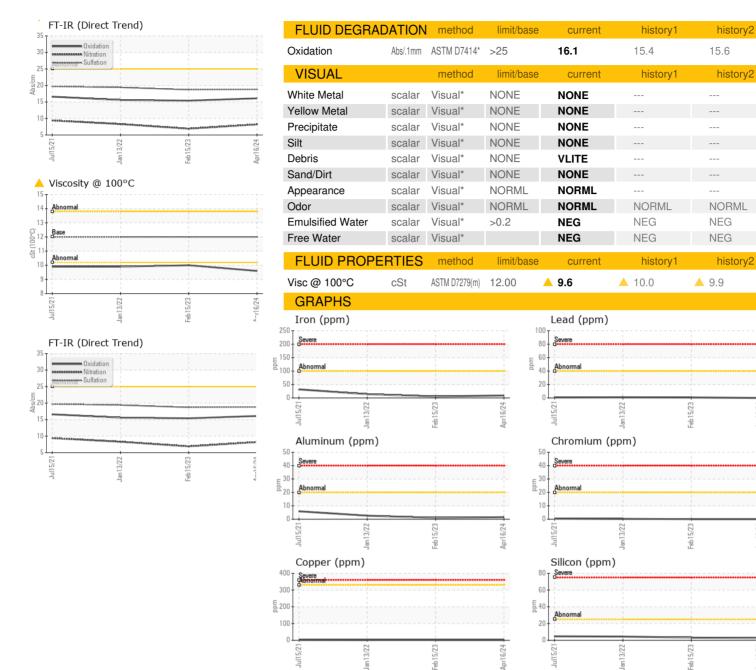
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

AL)		Jul202	1 Jan 2022	Feb 2023 A	pr2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108217	GFL0047690	GFL0024242
Sample Date		Client Info		16 Apr 2024	15 Feb 2023	13 Jan 2022
Machine Age	hrs	Client Info		14156	0	11076
Oil Age	hrs	Client Info		500	350	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	9	6	14
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
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)	2	2	2	12
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	60	60	54
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	950	971	987	969
Calcium	ppm	ASTM D5185(m)	1050	1083	1066	1040
Phosphorus	ppm	ASTM D5185(m)	995	1043	1032	1015
Zinc	ppm	ASTM D5185(m)	1180	1197	1208	1130
Sulfur	ppm	ASTM D5185(m)	2600	2607	2649	2575
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	3	4
Sodium	ppm	ASTM D5185(m)		1	1	<1
Potassium	ppm	ASTM D5185(m)	>20	1	0	<1
Fuel	%	ASTM D7593*	>2.0	<u>▲</u> 3.7	▲ 2.7	▲ 2.7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.2	6.9	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	18.7	19.4



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 02638801 Unique Number : 5787963

Viscosity @ 100°C

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 355 - Saskatoon : GFL0108217 Received : 30 May 2024

Tested : 31 May 2024 Diagnosed : 31 May 2024 - Wes Davis

Feb15/23

Test Package : MOB 1 (Additional Tests: PercentFuel, Visual) 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.

Fuel Dilution

6.0

0.0

CA S7K 3J7 Contact: Ryan Polichuk rpolichuk@gflenv.com T: (306)244-9500

100 Cory Road

Saskatoon, SK

Validity of results and interpretation are based on the sample and information as supplied. Report Id: GFL355 [WCAMIS] 02638801 (Generated: 05/31/2024 15:14:49) Rev: 1

Contact/Location: Ryan Polichuk - GFL355

F: