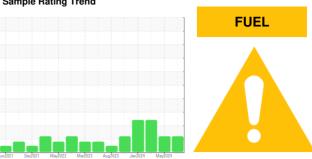


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 816003

Diesel Engine

PETRO CANADA DURON SHP 15W40 (20 LTR)

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.

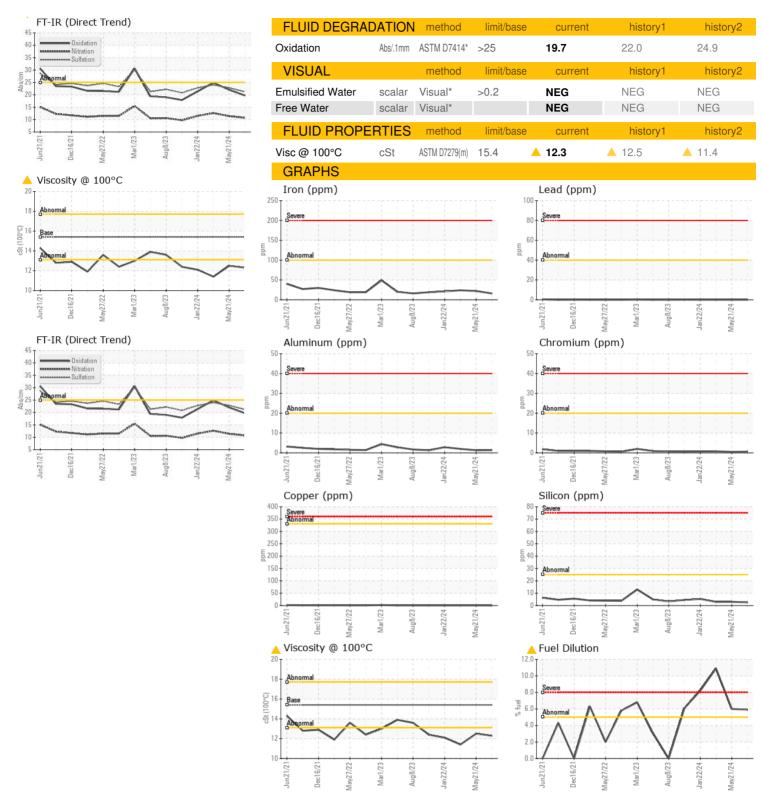
Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

_TR) Juni 2021 Dec 2021 May 2022 May 2023 Juni 2024 May 2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123453	GFL0116856	GFL0116840
Sample Date		Client Info		11 Jul 2024	21 May 2024	12 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		500	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE
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	16	22	24
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	1	2
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)	710	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)	0	3	3	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	53	53	50
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	873	870	815
Calcium	ppm	ASTM D5185(m)	1070	947	946	855
Phosphorus	ppm	ASTM D5185(m)	1150	901	886	836
Zinc	ppm	ASTM D5185(m)	1270	1102	1071	987
Sulfur	ppm	ASTM D5185(m)	2060	2278	2140	2012
Lithium	ppm	ASTM D5185(m)	2000	<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Sodium	ppm	ASTM D5185(m)		2	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	△ 5.9	<u></u> 6	▲ 10.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.5	0.6
Nitration	Abs/cm	ASTM D7624*	>20	10.7	11.4	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	22.8	24.0



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02647744 Unique Number : 5813296

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0123453

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received Tested Diagnosed

: 15 Jul 2024 : 16 Jul 2024

: 16 Jul 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: PercentFuel)

CA N8W 4J5 Contact: Pamela-Jean Butler pamelajean.butler@gflenv.com T: (519)948-8126

GFL Environmental - 221 - Windsor

905 Tecumseh Road W

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.

F:

Windsor, ON