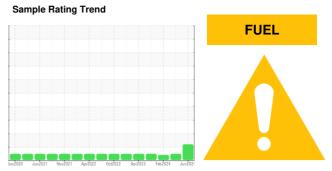


OIL ANALYSIS REPORT



Machine Id 727008 **Diesel Engine**

DIESEL ENGINE OIL SAE 15W40 (--- GAL)



DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

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.

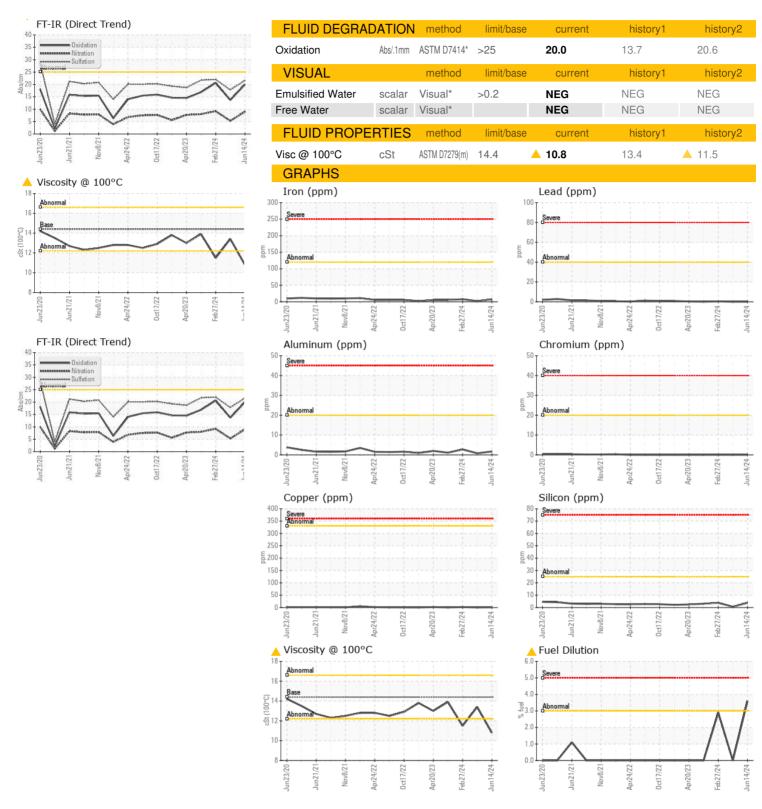
▲ Fluid Condition

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

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113235	GFL0102866	GFL011325
Sample Date		Client Info		14 Jun 2024	21 Mar 2024	27 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		17229	16598	16492
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	7	2	8
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	<1	3
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	2
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)	250	22	10	33
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	42	53	38
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)	450	508	857	471
Calcium	ppm	ASTM D5185(m)	3000	1575	1023	1630
Phosphorus	ppm	ASTM D5185(m)	1150	732	909	726
Zinc	ppm	ASTM D5185(m)	1350	869	1077	862
Sulfur	ppm	ASTM D5185(m)	4250	2050	2379	2115
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	<1	4
Sodium	ppm	ASTM D5185(m)	>158	2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Fuel	%	ASTM D7593*	>3.0	△ 3.6	<1.0	2.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.4	0	0.3
Soot % Nitration	% Abs/cm		>4 >20	0.4 9.0	0 5.3	0.3 9.2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

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

: GFL0113235 Lab Number : 02642477 Unique Number : 5800016

Tested : 19 Jun 2024 Diagnosed : 19 Jun 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

Received

: 18 Jun 2024

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. Validity of results and interpretation are based on the sample and information as supplied.

GFL Environmental - 246 - Windsor

2700 Deziel Dr Windsor, ON CA N8W 5H8 Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009

Submitted By: Dave Varga