

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 727007 Component Diesel Engine

#### Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

# DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

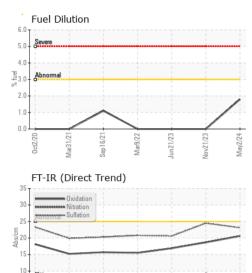
### Fluid Condition

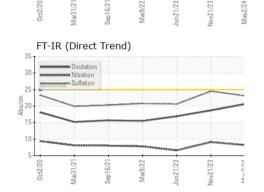
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

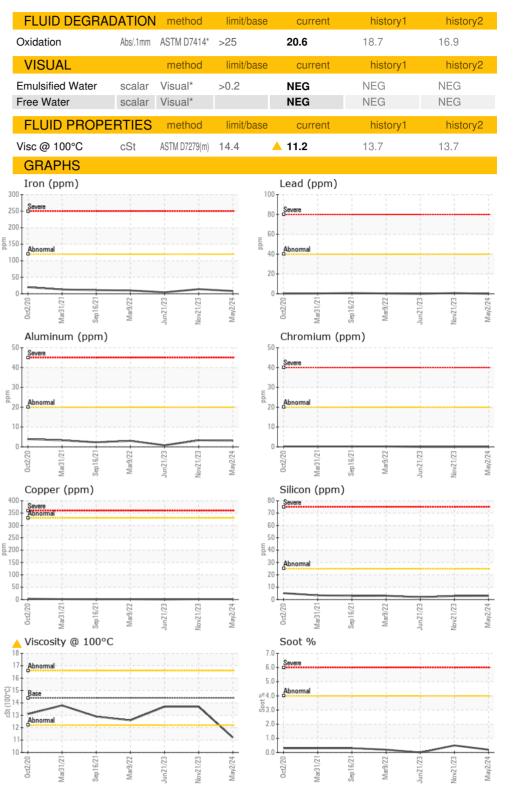
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113232	GFL0102880	GFL0078513
Sample Date		Client Info		02 May 2024	21 Nov 2023	21 Jun 2023
Machine Age	hrs	Client Info		0	0	12843
Oil Age	hrs	Client Info		10920	10569	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
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)	>120	8	14	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	3	<1
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm		>330	1	2	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
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	42	47	133
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	41	6	9
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)	450	447	100	103
Calcium	ppm	ASTM D5185(m)	3000	1729	1991	2000
Phosphorus	ppm	ASTM D5185(m)	1150	725	891	962
Zinc	ppm	ASTM D5185(m)	1350	862	1123	1086
Sulfur	ppm	ASTM D5185(m)	4250	2087	2552	2796
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	3	2
Sodium	ppm	ASTM D5185(m)	>216	2	7	2
Potassium	ppm	ASTM D5185(m)	>20	<1	4	4
Fuel	%	ASTM D7593*	>3.0	1.8	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.2	0.5	0
Nitration	Abs/cm	ASTM D7624*	>20	8.2	9.1	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.1	24.5	20.6



# **OIL ANALYSIS REPORT**







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 246 - Windsor CALA Sample No. : GFL0113232 Received :06 May 2024 2700 Deziel Dr Lab Number : 02633407 Tested :07 May 2024 Windsor, ON ISO 17025:2017 Accredited Unique Number : 5774560 Diagnosed : 07 May 2024 - Kevin Marson CA N8W 5H8 Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Dave Varga To discuss this sample report, contact Customer Service at 1-800-268-2131. dvarga@gflenv.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)944-8009 Validity of results and interpretation are based on the sample and information as supplied. E:

Report Id: GFL246 [WCAMIS] 02633407 (Generated: 05/07/2024 11:34:07) Rev: 1

Submitted By: Dave Varga Page 2 of 2