

# **OIL ANALYSIS REPORT**

## Sample Rating Trend





Machine Id 727006 Component Diesel Engine Fluid

**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

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

SAE 15W40 ( G	AL)	Way2020 Ja	in2021 Sep2021 Mar	2022 Aug2022 Jan2023	Apr2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097325	GFL0078514	GFL0063905
Sample Date		Client Info		14 Dec 2023	20 Apr 2023	15 Feb 2023
Machine Age	hrs	Client Info		0	17322	16940
Oil Age	hrs	Client Info		18988	0	500
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	7	8	10
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	3
Lead	ppm	ASTM D5185(m)	>40	1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	3
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	<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)	250	26	38	4
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	40	41	58
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	495	514	935
Calcium	ppm	ASTM D5185(m)	3000	1616	1729	1110
Phosphorus	ppm	ASTM D5185(m)	1150	693	806	1037
Zinc	ppm	ASTM D5185(m)	1350	825	876	1191
Sulfur	ppm	ASTM D5185(m)	4250	1967	2214	2447
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	4	3
Sodium	ppm	ASTM D5185(m)	>158	2	2	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Fuel	%	ASTM D7593*	>3.0	<u>4.1</u>	<u></u> 3	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.6	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.1	7.7	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	22.4	21.8



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CALA ISO 17025:2017 Accredited Laboratory

Report Id: GFL246 [WCAMIS] 02604331 (Generated: 12/22/2023 08:41:00) Rev: 1

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 246 - Windsor : GFL0097325 : 02604331

Recieved : 5697416

: 20 Dec 2023 Diagnosed Diagnostician : Wes Davis

: 22 Dec 2023 Test Package : MOB 1 ( Additional Tests: FUELDILUTION, PercentFuel ) 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.

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

2700 Deziel Dr

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