

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



### Machine Id 810048

Component **Diesel Engine** Elui DIESEL ENGINE OIL SAE 40 (--- GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

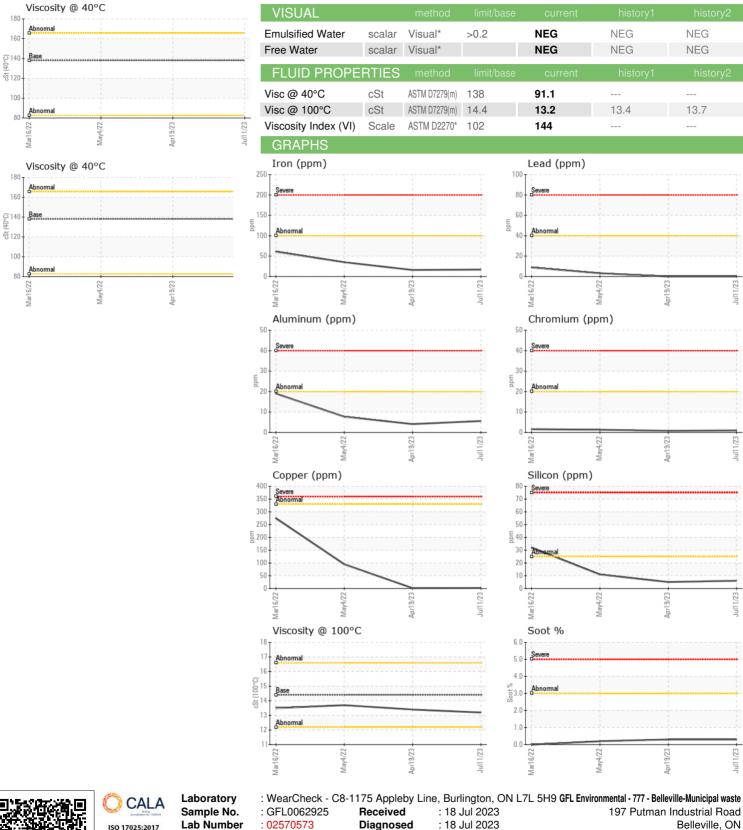
#### Fluid Condition

The condition of the oil is acceptable for the time in service.

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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0062925	GFL0062914	GFL0041310	
Sample Date		Client Info		11 Jul 2023	19 Apr 2023	04 May 2022	
Machine Age	hrs	Client Info		3941	3397	1101	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	17	16	35	
Chromium	ppm	ASTM D5185(m)	>20	1	<1	1	
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	<1	0	
Silver	ppm	ASTM D5185(m)	>3	<1	0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	6	4	8	
Lead	ppm	ASTM D5185(m)	>40	0	0	3	
Copper	ppm	ASTM D5185(m)	>330	2	2	95	
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1	
Antimony	ppm	ASTM D5185(m)		<1	<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	10	8	25	
Barium	ppm	ASTM D5185(m)	10	0	0	2	
Molybdenum	ppm	ASTM D5185(m)	100	61	60	68	
Manganese	ppm	ASTM D5185(m)		<1	<1	2	
Magnesium	ppm	ASTM D5185(m)	450	937	941	909	
Calcium	ppm	ASTM D5185(m)	3000	1091	1132	1186	
Phosphorus	ppm	ASTM D5185(m)	1150	1024	1065	979	
Zinc	ppm	ASTM D5185(m)	1350	1166	1188	1159	
Sulfur	ppm	ASTM D5185(m)	4250	2471	2578	2218	
Lithium	ppm	ASTM D5185(m)		<1	<1	<1	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	6	5	11	
Sodium	ppm	ASTM D5185(m)	>216	7	6	7	
Potassium	ppm	ASTM D5185(m)	>20	11	6	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.3	0.3	0.2	
Nitration	Abs/cm	ASTM D7624*	>20	9.1	8.8	8.9	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	19.6	22.5	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.2	15.8	16.7	
52:04) Rev: 1				Contact/Loca	Contact/Location: Andrea Michael - GFL777		



# **OIL ANALYSIS REPORT**



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Apr19/23

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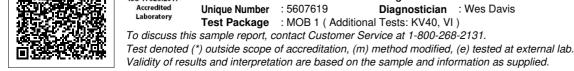
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ISO 17025:2017

Contact/Location: Andrea Michael - GFL777

: 18 Jul 2023

: Wes Davis

Diagnostician

: 5607619

Test Package : MOB 1 (Additional Tests: KV40, VI)

Unique Number

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