

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 911046 Component

**Diesel Engine** Fluid

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

## Recommendation We advise that you check the fuel injection system.

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

DIAGNOSIS

There is a high 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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0064881	GFL0064857	GFL0064842
Sample Date		Client Info		30 Aug 2023	01 Jun 2023	30 Nov 2022
Machine Age	hrs	Client Info		0	0	698
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	14	24	5
Chromium	ppm	ASTM D5185(m)	>20	<1	1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	1
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	1	4	<1
Tin	ppm	ASTM D5185(m)	>15	<1	3	<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	4	37	6
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	39	42	55
Manganese	ppm	ASTM D5185(m)		<1	4	<1
Magnesium	ppm	ASTM D5185(m)	450	625	507	897
Calcium	ppm	ASTM D5185(m)	3000	721	1611	1115
Phosphorus	ppm	ASTM D5185(m)	1150	686	767	1039
Zinc	ppm	ASTM D5185(m)	1350	770	844	1114
Sulfur	ppm	ASTM D5185(m)	4250	1676	1959	2621
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	<b>4</b> 4	6
Sodium	ppm	ASTM D5185(m)	>158	4	9	2
Potassium	ppm	ASTM D5185(m)	>20	3	10	0
Fuel	%	ASTM D7593*	>3.0	<b>0</b> 21.1	2.8	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.4	0.5	0
Nitration	Abs/cm	ASTM D7624*	>20	9.0	8.2	5.2
Sulfation	Abs/ 1mm	ASTM D7415*	>30	26.4	23.9	19.7
			1			
FLUID DEGRAL	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	28.1	22.0	14.9
1.10.07) Boy: 1				Contact/Lo	cation Triston F	bach - GEL 558

Contact/Location: Tristen Ebach - GFL558



% fuel

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

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NEG

14.1

history2