

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

# NORMAL



Machine Id 933008 Component **Natural Gas Engine** 

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



# DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the

#### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

AE 15W40 (	GAL)		Sep2023	Mar2024		
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112404	GFL0091639	
Sample Date		Client Info		05 Mar 2024	29 Sep 2023	
Machine Age	kms	Client Info		31525	17535	
Oil Age	kms	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	26	50	
Chromium	ppm	ASTM D5185(m)	>5	1	<1	
Nickel	ppm	ASTM D5185(m)	>4	<1	1	
Titanium	ppm	ASTM D5185(m)	>5	0	0	
Silver	ppm	ASTM D5185(m)	>3	0	<1	
Aluminum	ppm	ASTM D5185(m)	>25	3	5	
Lead	ppm	ASTM D5185(m)	>40	2	2	
Copper	ppm	ASTM D5185(m)	>150	3	17	
Tin	ppm	ASTM D5185(m)	>4	<1	1	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	13	9	
Barium	ppm	ASTM D5185(m)	10	0	3	
Molybdenum	ppm	ASTM D5185(m)	100	59	57	
Manganese	ppm	ASTM D5185(m)		2	11	
Magnesium	ppm	ASTM D5185(m)	450	658	778	
Calcium	ppm	ASTM D5185(m)	3000	1780	1373	
Phosphorus	ppm	ASTM D5185(m)	1150	850	722	
Zinc	ppm	ASTM D5185(m)	1350	1020	919	
Sulfur	ppm	ASTM D5185(m)	4250	2238	1915	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	24	
Sodium	ppm	ASTM D5185(m)	>158	9	6	
Potassium	ppm	ASTM D5185(m)	>20	3	7	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	
Nitration	Abs/cm	ASTM D7624*	>20	12.8	12.4	
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.8	25.0	



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number

: 02621326 Unique Number : 5746445 Test Package : MOB 2 ( Additional Tests: i-pH, TAN Auto, TAN Man, Visual )

: GFL0112404

Received **Tested** Diagnosed

: 12 Mar 2024 : 13 Mar 2024

: 13 Mar 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County 220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** 

Contact: GFL Calgary calgarymaintenance@gflenv.com

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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