

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Component **Diesel Engine** 

# DIESEL ENGINE OIL SAE 15W40 (36 LTR)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

There is no indication of any contamination in the oil.

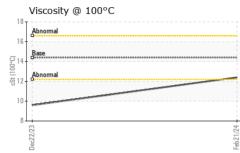
### Fluid Condition

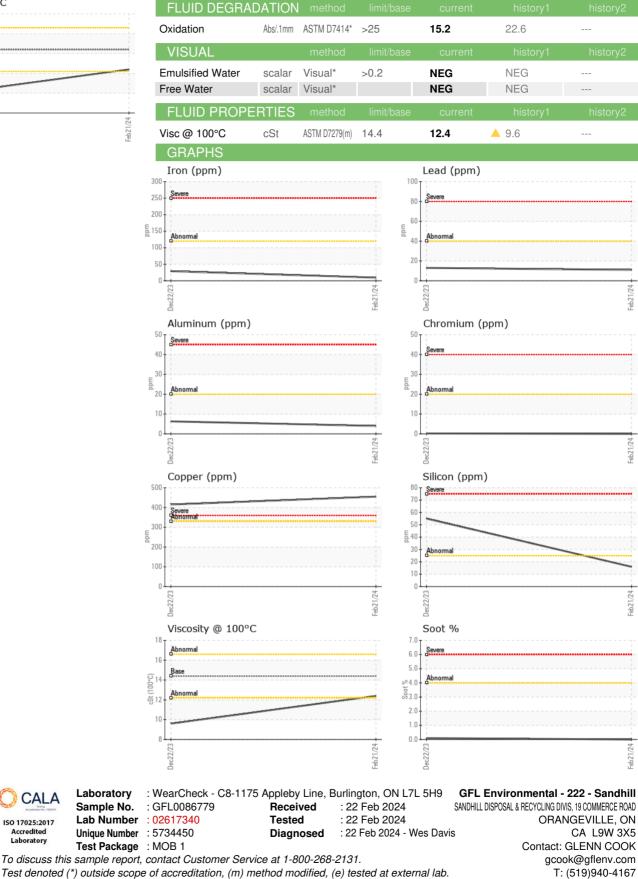
The condition of the oil is acceptable for the time in service.

AE 15W40 (30			Dec2023	Feb 2024		
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086779	GFL0086778	
Sample Date		Client Info		21 Feb 2024	22 Dec 2023	
Machine Age	hrs	Client Info		792	622	
Oil Age	hrs	Client Info		792	600	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	1	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method	7 0.1	NEG	NEG	
WEAR METAI	S	method	limit/base		history1	history2
					29	
Iron	ppm	ASTM D5185(m)	>120	10		
Chromium Nickel	ppm	ASTM D5185(m)		0	<1	
	ppm	ASTM D5185(m)	>5	1	2	
Titanium Silver	ppm	ASTM D5185(m)	>2 >2	<1	0 <1	
	ppm	ASTM D5185(m)		1		
Aluminum	ppm	ASTM D5185(m)			6	
Lead	ppm	ASTM D5185(m)	>40	11	13	
Copper	ppm	ASTM D5185(m)		455	415	
Tin	ppm	ASTM D5185(m)	>15	<1	3	
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	84	258	
Barium	ppm	ASTM D5185(m)	10	0	<1	
Molybdenum	ppm	ASTM D5185(m)	100	90	117	
Manganese	ppm	ASTM D5185(m)		<1	4	
Magnesium	ppm	ASTM D5185(m)	450	153	687	
Calcium	ppm	ASTM D5185(m)	3000	2039	1421	
Phosphorus	ppm	ASTM D5185(m)	1150	974	661	
Zinc	ppm	ASTM D5185(m)	1350	1081	767	
Sulfur	ppm	ASTM D5185(m)	4250	3129	2014	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	16	55	
Sodium	ppm	ASTM D5185(m)	>158	2	3	
Potassium	ppm	ASTM D5185(m)	>20	7	10	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0	0.1	
Nitration	Abs/cm	ASTM D7624*	>20	9.9	10.2	
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	24.3	
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Validity of results and interpretation are based on the sample and information as supplied.

CALA

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