

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

731031 Component Natural Gas Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119232	GFL0066652	GFL0042090
Sample Date		Client Info		09 May 2024	13 Dec 2022	31 Jan 2022
Machine Age	hrs	Client Info		5196	2425	1213
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	4	10	1 70
Chromium	ppm	ASTM D5185(m)	>4	0	<1	2
Nickel	ppm	ASTM D5185(m)	>2	0	<1	2
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>9	<1	1	4
Lead	ppm	ASTM D5185(m)	>30	0	<1	3
Copper	ppm	ASTM D5185(m)	>35	<1	1	17
Tin	ppm	ASTM D5185(m)	>4	0	0	2
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	49	39	10
Barium	ppm	ASTM D5185(m)	10	0	0	2
Molybdenum	ppm	ASTM D5185(m)	100	51	47	89
Manganese	ppm	ASTM D5185(m)		<1	<1	8
Magnesium	ppm	ASTM D5185(m)	450	518	550	640
Calcium	ppm	ASTM D5185(m)	3000	1472	1539	1057
Phosphorus	ppm	ASTM D5185(m)	1150	723	819	717
Zinc	ppm	ASTM D5185(m)	1350	806	868	834
Sulfur	ppm	ASTM D5185(m)	4250	1981	2116	2005
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	3	6	25
Sodium	ppm	ASTM D5185(m)	>158	4	6	4
Potassium	ppm	ASTM D5185(m)	>20	0	<1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.9	7.4	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	19.3	25.3
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	15.7	20.2



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age 20 15

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cSt (100°C)

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FT-IR (Direct Trend)

Oxidation

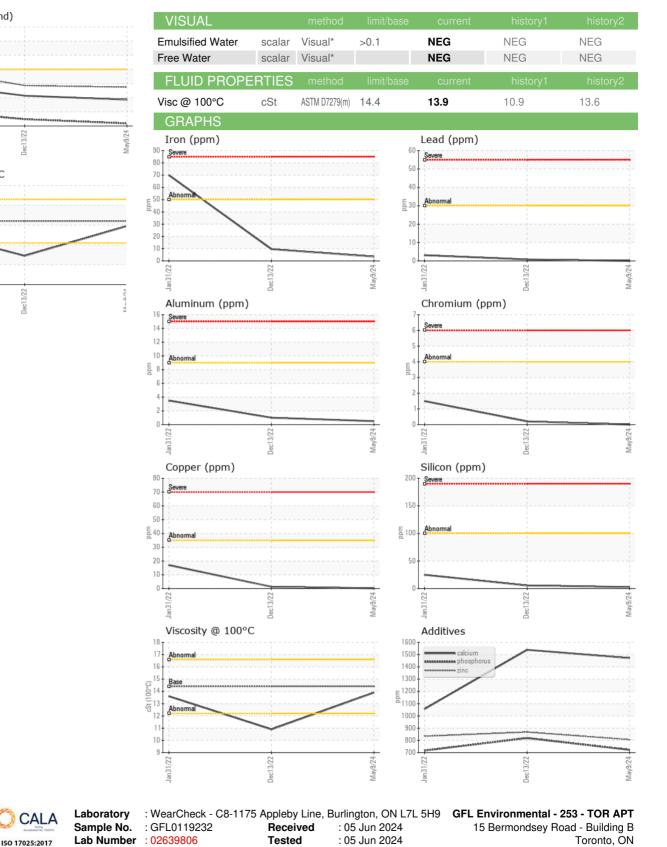
Sulfation

Viscosity @ 100°C

Dec13/22

Dec13/22

OIL ANALYSIS REPORT



Accredited Laboratory Test Package : MOB 1 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.

Diagnosed

: 05 Jun 2024 - Wes Davis

Unique Number : 5788968

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