

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# NORMAL



Machine Id 927021-592 Component Diesel Engine

CHEVRON DELO 400 XLE 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

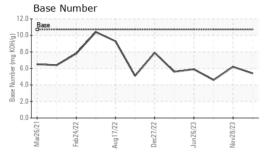
# **Fluid Condition**

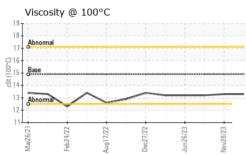
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	•	Mar2021	Feb2022 Aug2022	Dec2022 Jun2023 N	pv2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096328	GFL0096313	GFL0064422
Sample Date		Client Info		19 Dec 2023	28 Nov 2023	05 Sep 2023
Machine Age	hrs	Client Info		16193	16134	15627
Oil Age	hrs	Client Info		0	0	622
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	12	16	31
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	6	6	11
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	<1
Lead	ppm	ASTM D5185m	>40	<1	0	3
Copper	ppm	ASTM D5185m	>330	<1	<1	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		63	100	29
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		72	78	60
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		627	609	723
Calcium	ppm	ASTM D5185m		1489	1386	1692
Phosphorus	ppm	ASTM D5185m	760	603	643	710
Zinc	ppm	ASTM D5185m	830	792	782	877
Sulfur	ppm	ASTM D5185m	2770	2375	2746	3343
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	15	9
Sodium	ppm	ASTM D5185m		5	4	9
Potassium	ppm	ASTM D5185m	>20	<1	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624		10.6	10.1	10.8
Sulfation	Abs/.1mm	*ASTM D7415		24.2	23.1	25.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	18.5	21.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	5.4	6.2	4.6
Dasc Namber (DIN)	my Normy	AUTIVI DZ000	10.7	J.7	0.2	7.0



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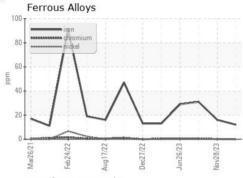


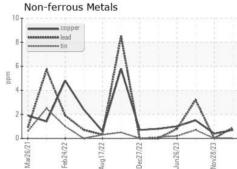


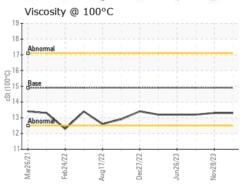
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

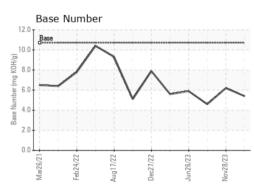
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.9	13.3	13.3	13.2

# **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0096328 : 06045985 : 10806593

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 27 Dec 2023 Diagnosed : 28 Dec 2023

Diagnostician : Wes Davis

GFL Environmental - 624 - Elmira Hauling

10164 M-32 Elmira, MI US 49730

Contact: ANDY GROBASKI andyg@americanwaste.org T: (989)370-2941

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)