

# **OIL ANALYSIS REPORT**

Sample Rating Trend

Septiez 1 Maylezz 0-cd/223

NORMAL



Machine Id **527028-733** 

Component

**Diesel Engine** 

CHEVRON DELO 400 XLE 15W40 (--- GAL)

### 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.

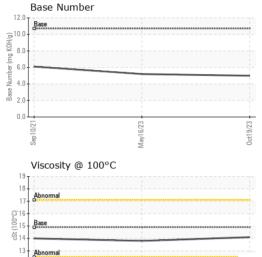
### **Fluid Condition**

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

Sap 2021 May 2023 Oct 2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084487	GFL0073499	GFL0018619
Sample Date		Client Info		19 Oct 2023	16 May 2023	10 Sep 2021
Machine Age	hrs	Client Info		16891	16144	13721
Oil Age	hrs	Client Info		747	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	33	59	24
Chromium	ppm	ASTM D5185m	>20	1	2	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		13	4	8
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	6	7	4
Lead	ppm	ASTM D5185m	>40	15	22	8
Copper	ppm	ASTM D5185m	>330	2	2	2
Tin	ppm	ASTM D5185m	>15	1	1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		26	33	51
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		47	92	76
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m		710	679	716
Calcium	ppm	ASTM D5185m		1487	1751	1677
Phosphorus	ppm	ASTM D5185m	760	663	859	774
Zinc	ppm	ASTM D5185m	830	851	1070	873
Sulfur	ppm	ASTM D5185m	2770	2703	3708	2525
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	10	11
Sodium	ppm	ASTM D5185m		7	10	4
Potassium	ppm	ASTM D5185m	>20	11	6	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	1.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.6	13.5	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.9	29.1	24.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	23.6	19
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	5.0	5.2	6.1



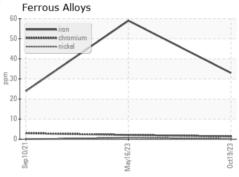
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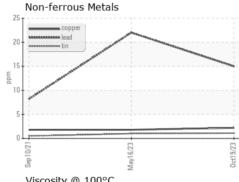


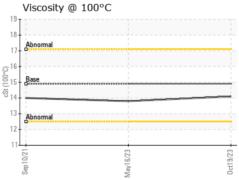
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

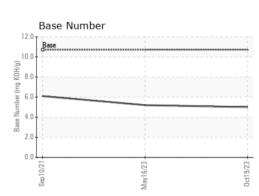
FLUID PROPE	EKITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.9	14.1	13.8	14.0

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10708671 Test Package : FLEET

: GFL0084487 : 05986009

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Oct 2023

Diagnosed : 23 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 629 - Northern A1

3947 US 131 N Kalkaska, MI US 49646-8428

Contact: MITCH HERSHBERGER

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)

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