

# **OIL ANALYSIS REPORT**

### Sample Rating Trend







Machine Id 913088 Component **Diesel Engine** 

CHEVRON DELO 400 XLE 15W40 (9 GAL)

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

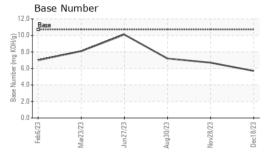
### **Fluid Condition**

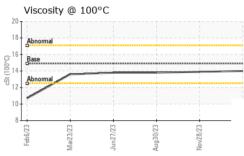
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LE 15W40 (9 G	AL)	Feb 2023	Mar2023 Jun2023	Aug2023 Nov2023	Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096322	GFL0096312	GFL006442
Sample Date		Client Info		18 Dec 2023	28 Nov 2023	30 Aug 2023
Machine Age	hrs	Client Info		2539	0	1923
Oil Age	hrs	Client Info		0	0	504
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
- uel		WC Method	>3.0	<1.0	<1.0	<1.0
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	13	16	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	4	4	3
Γitanium	ppm	ASTM D5185m	>2	5	6	11
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	<1
_ead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	1	2
Γin	ppm	ASTM D5185m	>15	0	0	1
√anadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		109	131	91
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		79	85	54
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		657	636	754
Calcium	ppm	ASTM D5185m		1546	1436	1636
Phosphorus	ppm	ASTM D5185m	760	610	678	717
Zinc	ppm		830	821	818	857
Sulfur	ppm	ASTM D5185m	2770	2440	2662	3426
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	9	6
Sodium	ppm	ASTM D5185m		4	3	4
Potassium	ppm	ASTM D5185m	>20	<1	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.9	0.8	0.5
Vitration	Abs/cm	*ASTM D7624	>20	10.3	10.3	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	23.4	19.9
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	17.7	14.4



## **OIL ANALYSIS REPORT**

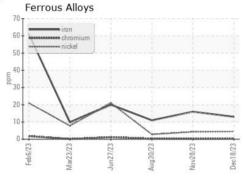


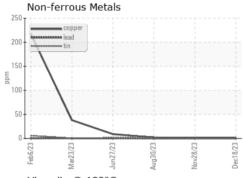


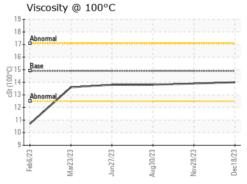
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

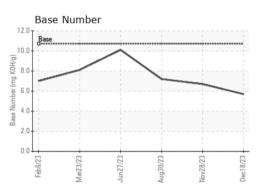
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14.9	14.0	13.9	13.8	

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

**Unique Number** Test Package : FLEET

: GFL0096322 : 06045988

: 10806596

: 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)