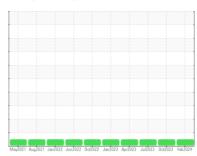


# **OIL ANALYSIS REPORT**

### Sample Rating Trend







Machine Id **527024-736** 

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

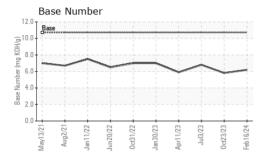
### **Fluid Condition**

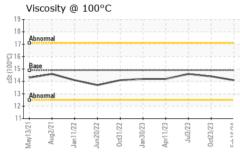
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

)	May2021 Aug2021 Jan2022 Jan2022 Jan2022 Jan2023 Aug2023 Aug2023 Gc2023 Feb2024						
	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
5	Sample Number		Client Info		GFL0096081	GFL0084484	GFL0084531
5	Sample Date		Client Info		16 Feb 2024	23 Oct 2023	03 Jul 2023
N	Machine Age	hrs	Client Info		19791	19207	18598
(	Oil Age	hrs	Client Info		584	609	600
(	Oil Changed		Client Info		Changed	Changed	Changed
5	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINATI	ON	method	limit/base	current	history1	history2
F	uel		WC Method	>5	<1.0	<1.0	<1.0
١	Vater		WC Method	>0.2	NEG	NEG	NEG
(	Slycol		WC Method		NEG	NEG	NEG
	WEAR METALS	3	method	limit/base	current	history1	history2
- 1	ron	ppm	ASTM D5185m	>100	35	22	21
(	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
١	lickel	ppm	ASTM D5185m	>4	0	0	0
7	itanium	ppm	ASTM D5185m		20	12	16
5	Silver	ppm	ASTM D5185m	>3	0	0	0
F	lluminum	ppm	ASTM D5185m	>20	2	3	3
L	ead	ppm	ASTM D5185m	>40	6	8	8
(	Copper	ppm	ASTM D5185m	>330	1	<1	1
٦	in	ppm	ASTM D5185m	>15	0	<1	<1
1	/anadium	ppm	ASTM D5185m		0	0	<1
(	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
Е	Boron	ppm	ASTM D5185m		106	66	63
E	Barium	ppm	ASTM D5185m		<1	0	0
N	Nolybdenum	ppm	ASTM D5185m		82	61	47
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		1025	724	849
	Calcium	ppm	ASTM D5185m		2050	1645	1786
	hosphorus 	ppm	ASTM D5185m	760	1025	810	791
	linc	ppm	ASTM D5185m	830	1275	1017	957
	Sulfur	ppm	ASTM D5185m	2770	4336	3066	3972
	CONTAMINAN		method	limit/base	current	history1	history2
_	Silicon	ppm	ASTM D5185m	>25	8	6	6
	Sodium	ppm	ASTM D5185m		<1	5	4
-	otassium	ppm	ASTM D5185m	>20	11	8	6
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4
	litration	Abs/cm	*ASTM D7624	>20	11.4	11.4	12.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	25.2	25.5
FLUID DEGRADATION method limit/base current history1 history2							history2
(	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	20.2	20.7



# **OIL ANALYSIS REPORT**

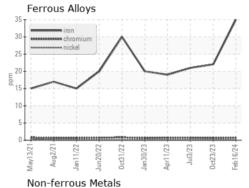


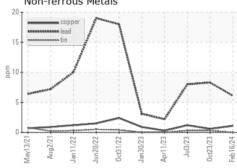


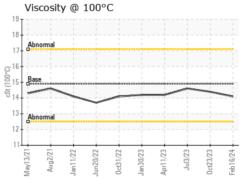
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

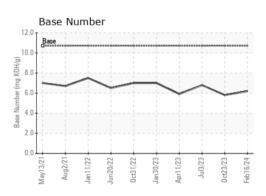
FLUID PROPE	EKITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.9	14.1	14.4	14.6

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number : 06095273 Unique Number : 10888126

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0096081

**Tested** Diagnosed Test Package : FLEET

Received : 21 Feb 2024 : 22 Feb 2024

: 22 Feb 2024 - Sean Felton

GFL Environmental - 629 - Northern A1

3947 US 131 N Kalkaska, MI US 49646-8428

T: (231)624-0848

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)

F: