

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



Machine Id **226011-732** 

Component

**Diesel Engine** 

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

### **Fluid Condition**

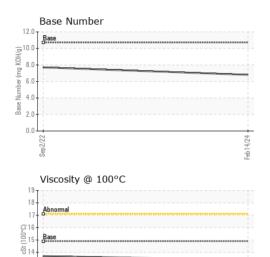
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			Sep 2022	Feb 2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
	IIVI/ (TTOT)	Client Info	mmusacc	GFL0096084	GFL0053009	
Sample Number		Client Info		14 Feb 2024		
Sample Date	bro	Client Info		3124	02 Sep 2022	
Machine Age	hrs				2561	
Oil Age	hrs	Client Info		563	565 Channad	
Oil Changed		Client Info		Changed NORMAL	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	22	24	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		6	14	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	7	8	
Lead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m	>330	3	4	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		132	82	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		82	49	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		619	628	
Calcium	ppm	ASTM D5185m		1641	1465	
Phosphorus	ppm	ASTM D5185m	760	833	733	
Zinc	ppm	ASTM D5185m	830	977	873	
Sulfur	ppm	ASTM D5185m	2770	3102	2982	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	7	
Sodium	ppm	ASTM D5185m		2	1	
Potassium	ppm	ASTM D5185m	>20	9	19	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	10.4	11.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	22.6	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.7	
Base Number (BN)		ASTM D2896	10.7	6.8	7.7	
(2.4)	39					



Abnormal

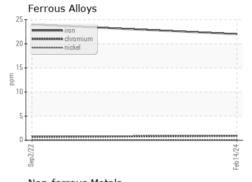
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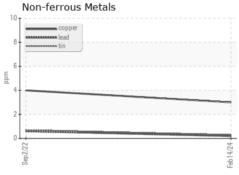


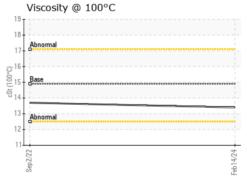
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

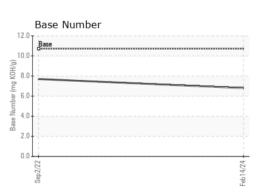
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	14.9	13.4	13.7	

## GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06092640

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0096084

Unique Number : 10885493

Received Tested Diagnosed

: 19 Feb 2024 : 20 Feb 2024 : 20 Feb 2024 - Wes Davis

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)

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