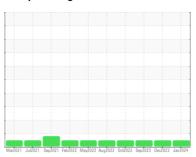


## **OIL ANALYSIS REPORT**

#### **Sample Rating Trend**



NORMAL



Machine Id **527026-738** 

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.

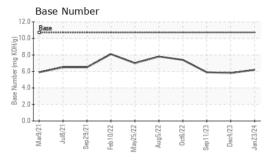
#### **Fluid Condition**

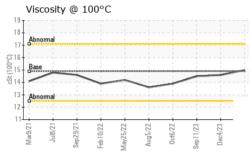
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Marž021 Juž021 Sapž021 Fabž022 Marž022 Augž022 Ocz2022 Sapž023 Occ2023 Janž024							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0096092	GFL0096110	GFL0084502	
Sample Date		Client Info		23 Jan 2024	04 Dec 2023	11 Sep 2023	
Machine Age	hrs	Client Info		20913	20158	19474	
Oil Age	hrs	Client Info		755	684	4320	
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	
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	>100	25	25	38	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m		14	11	11	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	3	6	
Lead	ppm	ASTM D5185m	>40	20	11	18	
Copper	ppm	ASTM D5185m	>330	0	<1	1	
Tin	ppm	ASTM D5185m	>15	<1	0	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		63	52	66	
Barium	ppm	ASTM D5185m		<1	0	0	
Molybdenum	ppm	ASTM D5185m		46	55	72	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m		746	740	802	
Calcium	ppm	ASTM D5185m		1529	1614	1879	
Phosphorus	ppm	ASTM D5185m	760	733	850	898	
Zinc	ppm	ASTM D5185m	830	878	1000	1107	
Sulfur	ppm	ASTM D5185m	2770	2784	3230	4009	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	6	8	
Sodium	ppm	ASTM D5185m		7	4	6	
Potassium	ppm	ASTM D5185m	>20	6	6	9	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	13.1	12.6	11.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.9	26.7	25.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.7	23.2	22.7	
Base Number (BN)	mg KOH/g	ASTM D2896		6.2	5.8	5.9	
(= - •)	59						



## **OIL ANALYSIS REPORT**



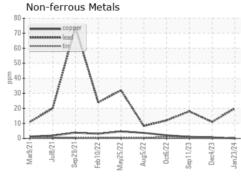


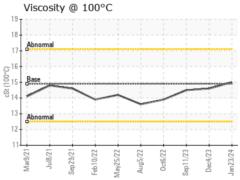
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

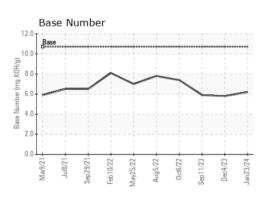
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	14.9	15.0	14.6	14.5

### **GRAPHS**

# Ferrous Alloys 25 E 20











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10848035 Test Package : FLEET

: GFL0096092 : 06071358

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 26 Jan 2024 Diagnosed : 26 Jan 2024

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)

T: (231)624-0848 F: