

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

NORMAL

Machine Id **929054-182539** 

Component

**Diesel Engine** 

CHEVRON DELO 400 MULTIGRADE 15W40 (--- LTR)

## 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.

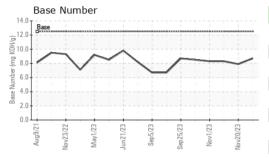
## **Fluid Condition**

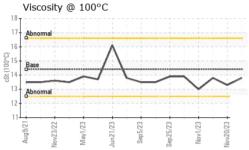
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

D ( LTR)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094776	GFL0078686	GFL0094782
Sample Date		Client Info		11 Dec 2023	20 Nov 2023	01 Nov 2023
Machine Age	hrs	Client Info		11532	11368	11242
Oil Age	hrs	Client Info		675	511	385
Oil Changed		Client Info		Not Changd	N/A	N/A
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	>110	3	8	8
Chromium	ppm	ASTM D5185m	>4	0	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	3	3	2
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>85	17	<1	20
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	151	24	17	27
Barium	ppm	ASTM D5185m	0.4	<1	0	6
Molybdenum	ppm	ASTM D5185m	250	94	102	106
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	893	892	847
Calcium	ppm	ASTM D5185m	2046	1032	1120	1087
Phosphorus	ppm	ASTM D5185m	1043	1000	1002	927
Zinc	ppm		943	1200	1179	1106
Sulfur	ppm	ASTM D5185m	5012	3025	2939	3290
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	3	4	4
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	12	13	16
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.1	7.6	6.8
	Abs/.1mm	*ASTM D7415	>30	18.5	19.6	19.2
Sulfation	AU5/.1111111					
Sulfation FLUID DEGRAI			limit/base	current	history1	history2
						history2



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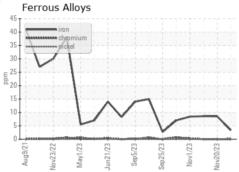


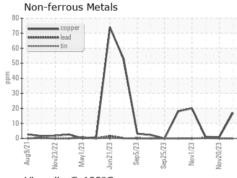


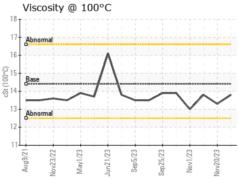
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

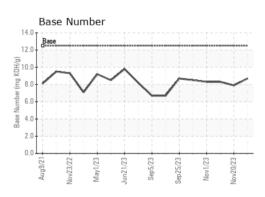
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.3	13.8	

## **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0094776 : 06039105

: 10794334

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Recieved : 19 Dec 2023 Diagnosed : 20 Dec 2023 Diagnostician : Don Baldridge GFL environmental - 867 - Trafford (Blount Hauling) 1130 County Line Rd

Trafford, AL US 35172

Contact: Jonathan Williams jonathan.williams@gflenv.com

\* - 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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