

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

NORMAL





420029-402256

Component **Diesel Engine** 

CHEVRON DELO 400 MULTIGRADE 15W40 (--- 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

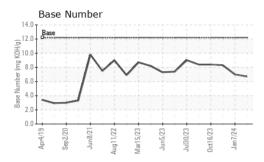
### **Fluid Condition**

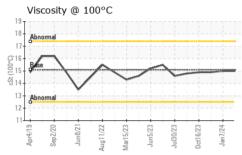
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATIO <u>N</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102981	GFL0086416	GFL0086403
Sample Date		Client Info		04 Feb 2024	07 Jan 2024	19 Nov 2023
Machine Age	hrs	Client Info		7256	7198	6998
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	mathad	limit/booo			
	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	>80	27	28	22
Chromium	ppm	ASTM D5185m	>5	1	2	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	3	3
Lead	ppm	ASTM D5185m	>30	8	9	4
Copper	ppm	ASTM D5185m	>150	2	2	3
Tin	ppm	ASTM D5185m	>5	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7	7	7
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		68	68	67
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		953	1042	990
Calcium	ppm	ASTM D5185m		1146	1239	1218
Phosphorus	ppm	ASTM D5185m	1360	1027	1251	1138
Zinc	ppm	ASTM D5185m	1480	1307	1500	1375
Sulfur	ppm	ASTM D5185m		2741	3339	3261
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	7	8
Sodium	ppm	ASTM D5185m		1	3	3
Potassium	ppm	ASTM D5185m	>20	2	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	11.0	8.2	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	20.0	21.1
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	16.3	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	6.7	7.0	8.3
			16-16-	U.1	1.0	



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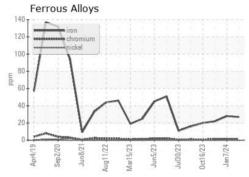


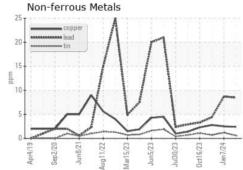


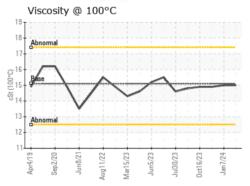
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

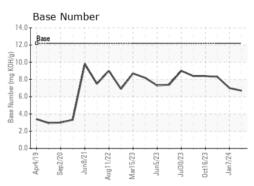
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	15.0	15.0	14.9

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number : 06080407 Unique Number : 10862498 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0102981

**Tested** Diagnosed

Received : 05 Feb 2024 : 06 Feb 2024

: 07 Feb 2024 - Angela Borella

GFL Environmental - 816 - WCA of South Arkansas 3083 Smackover Hwy

El Dorado, AR US 71730

Contact: Mike Howell mike.howell@gflenv.com

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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