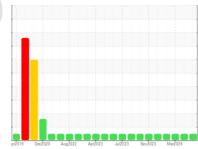


# **OIL ANALYSIS REPORT**

### . . . . .



Sample Rating Trend







Machine Id 420029-402256

Diesel Engine

CHEVRON DELO 400 MULTIGRADE 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

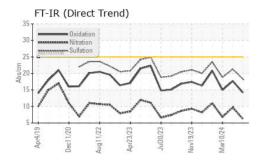
## **Fluid Condition**

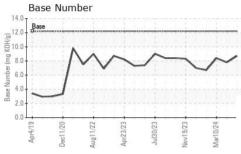
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

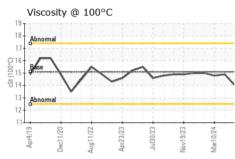
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123002	GFL0119383	GFL0102983
Sample Date		Client Info		20 Jun 2024	18 Apr 2024	10 Mar 2024
Machine Age	hrs	Client Info		6854	7589	7388
Oil Age	hrs	Client Info		0	7589	0
Oil Changed		Client Info		Changed	Changed	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	>80	4	22	8
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	3	1
Lead	ppm	ASTM D5185m	>30	0	<1	<1
Copper	ppm		>150	2	1	<1
Tin	ppm	ASTM D5185m	>5	0	1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		16	16	22
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		60	71	67
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		981	954	999
Calcium	ppm	ASTM D5185m		1063	1141	1175
Phosphorus	ppm	ASTM D5185m	1360	1038	1093	1070
Zinc	ppm	ASTM D5185m	1480	1267	1274	1320
Sulfur	ppm	ASTM D5185m	1400	3645	3409	3793
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	6	4
Sodium	ppm	ASTM D5185m	>20	3	3	<1
Potassium	ppm	ASTM D5185m	>20	5	2	<1
INFRA-RED	1-1-	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.8	0.3
Nitration	Abs/cm	*ASTM D7624		6.2	9.7	6.8
Sulfation	Abs/.1mm	*ASTM D7024	>30	18.3	21.3	18.8
FLUID DEGRAI			limit/base	current	history1	history2
					,	
Oxidation	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 12.2	14.2 8.7	17.7 7.8	15.0 8.4
Base Number (BN)						



## **OIL ANALYSIS REPORT**



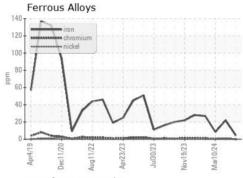


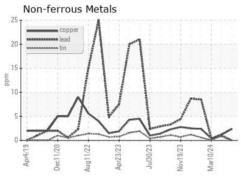


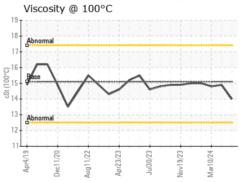
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

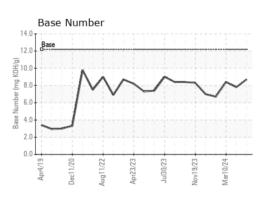
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	14.0	14.9	14.8

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0123002 Lab Number : 06220508 Unique Number : 11098705

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Jun 2024

**Tested** : 26 Jun 2024

Diagnosed : 27 Jun 2024 - Don Baldridge

4005 Hwy 161 N. Little Rock, AR US 72117

GFL Environmental - 814 - Little Rock Hauling

Contact: Brad Koenig bkoenig@gflenv.com T:

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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