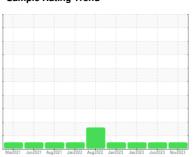


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



Machine Id **929015-1269** 

Component

**Diesel Engine** 

CHEVRON DELO 400 XLE 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.

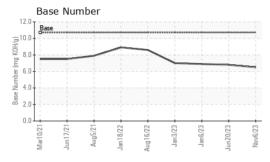
## **Fluid Condition**

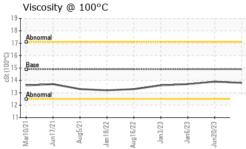
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Mar2021 Jun	n2021 Aug2021 Jan2022	Aug2022 Jan2023 Jan2023 Jun20	23 Nov2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096234	GFL0064372	GFL0064394
Sample Date		Client Info		06 Nov 2023	20 Jun 2023	06 Jan 2023
Machine Age	hrs	Client Info		18430	147000	16352
Oil Age	hrs	Client Info		0	15000	0
Oil Changed	0	Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23	40	16
Chromium	ppm	ASTM D5185m	>20	1	2	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		10	10	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	1
Lead	ppm	ASTM D5185m	>40	5	7	3
Copper	ppm	ASTM D5185m	>330	2	5	7
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
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		72	78	163
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		56	62	106
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		706	628	405
Calcium	ppm	ASTM D5185m		1538	1584	1713
Phosphorus	ppm	ASTM D5185m	760	741	733	773
Zinc	ppm	ASTM D5185m	830	909	887	931
Sulfur	ppm	ASTM D5185m	2770	2908	3041	2628
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	14	20
Sodium	ppm	ASTM D5185m		5	6	2
Potassium	ppm	ASTM D5185m	>20	3	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	1.3	0.7
Nitration	Abs/cm	*ASTM D7624	>20	11.4	12.3	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	27.0	23.7
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	22.6	18.8
Base Number (BN)	mg KOH/g		10.7	6.5	6.8	6.9
	99					



# **OIL ANALYSIS REPORT**

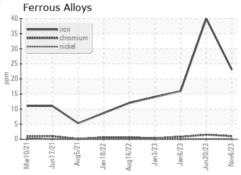


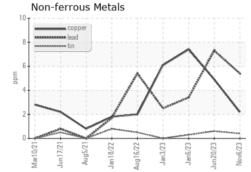


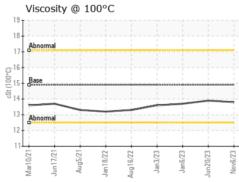
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

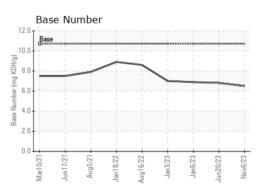
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.9	13.8	13.9	13.7

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0096234 : 06006077 : 10739839

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Nov 2023 Diagnosed

: 14 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 624 - Elmira Hauling

10164 M-32 Elmira, MI US 49730

Contact: KEITH CAMPBELL

kcampbell@gflenv.com T:

\* - 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)

F: