

### **OIL ANALYSIS REPORT**

Sample Rating Trend



# Machine Id 726020-519

#### Component Diesel Engine Fluid 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

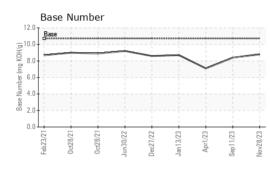
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

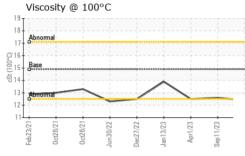
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096310	GFL0064428	GFL0064500
Sample Date		Client Info		28 Nov 2023	11 Sep 2023	01 Apr 2023
Machine Age	hrs	Client Info		33840	33846	33570
Oil Age	hrs	Client Info		0	492	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	<1.0 NEG	NEG	NEG
		WC Method	>0.2	NEG		NEG
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	41	51	🔺 161
Chromium	ppm	ASTM D5185m	>20	<1	1	4
Nickel	ppm	ASTM D5185m	>4	0	<1	2
Titanium	ppm	ASTM D5185m		5	5	1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	7	16
Lead	ppm	ASTM D5185m	>40	0	<1	1
Copper	ppm	ASTM D5185m	>330	1	2	4
Tin	ppm	ASTM D5185m	>15	0	<1	2
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		214	222	197
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		91	92	120
Manganese	ppm	ASTM D5185m		0	<1	2
Magnesium	ppm	ASTM D5185m		608	714	646
Calcium	ppm	ASTM D5185m		1433	1709	1652
Phosphorus	ppm	ASTM D5185m	760	664	731	726
Zinc	ppm	ASTM D5185m	830	775	864	877
Sulfur	ppm	ASTM D5185m	2770	2699	3353	2694
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	7	15
Sodium	ppm	ASTM D5185m		4	7	13
Potassium	ppm	ASTM D5185m	>20	3	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.7	2.1
Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.9	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.1	23.6
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Ovidation	Abc/1mm	*AQTM D7/1/	~ ')h	1/0	11 6	16.2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 10.7	14.9 8.8	14.5 8.4	16.3 7.1

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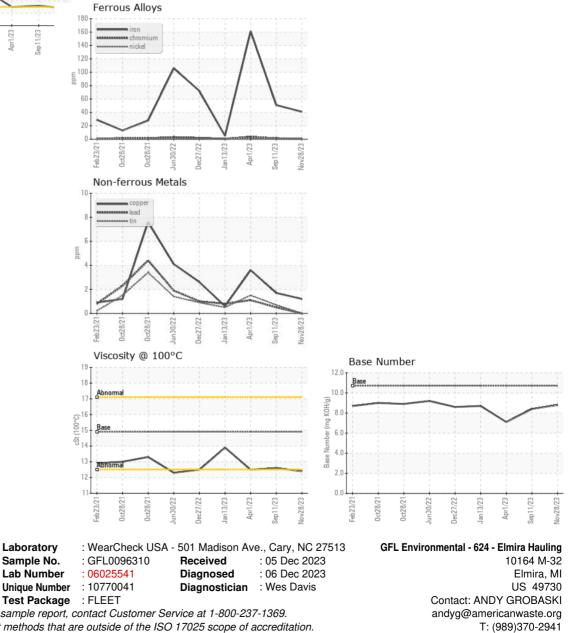


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.9	12.4	12.6	12.5
GRAPHS						





Certificate L2367 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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