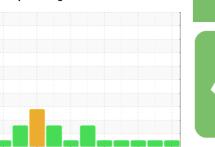


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **927021-592** Component

Diesel Engine

CHEVRON DELO 400 XLE 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

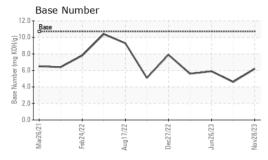
Fluid Condition

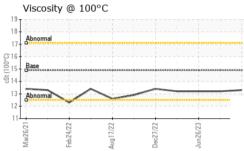
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	,	Mar2021	Feb2022 Aug2022	Dec2022 Jun2023	Nov2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096313	GFL0064422	GFL0064375
Sample Date		Client Info		28 Nov 2023	05 Sep 2023	26 Jun 2023
Machine Age	hrs	Client Info		16134	15627	15125
Oil Age	hrs	Client Info		0	622	479
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>120	16	31	29
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	6	11	10
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	<1	3
Lead	ppm	ASTM D5185m	>40	0	3	<1
Copper	ppm	ASTM D5185m	>330	<1	2	1
Tin	ppm		>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		100	29	87
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		78	60	58
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		609	723	628
Calcium	ppm	ASTM D5185m		1386	1692	1458
Phosphorus	ppm	ASTM D5185m	760	643	710	657
Zinc	ppm	ASTM D5185m	830	782	877	820
Sulfur	ppm	ASTM D5185m	2770	2746	3343	2949
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	9	18
Sodium	ppm	ASTM D5185m		4	9	10
Potassium	ppm	ASTM D5185m	>20	3	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.5	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.1	10.8	10.7
Sulfation	Abs/.1mm	*ASTM D7024	>30	23.1	25.1	24.4
FLUID DEGRAD			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	21.1	22.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.2	4.6	5.9



OIL ANALYSIS REPORT

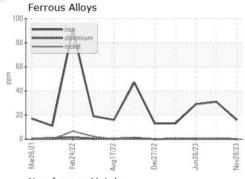


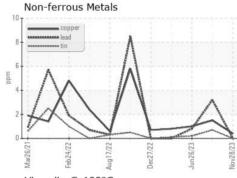


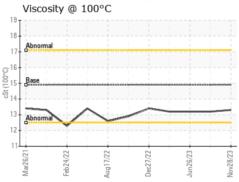
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

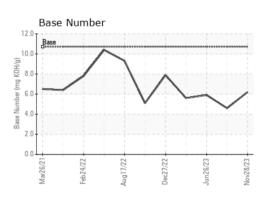
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.9	13.3	13.2	13.2

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10770038 Test Package : FLEET

: GFL0096313 : 06025538

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Dec 2023

Diagnosed : 06 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 624 - Elmira Hauling 10164 M-32

Elmira, MI US 49730

Contact: ANDY GROBASKI andyg@americanwaste.org T: (989)370-2941

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)