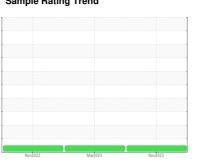


OIL ANALYSIS REPORT

Sample Rating Trend









EX0068-317 Component

Diesel Engine

CHEVRON DELO 400 XLE

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

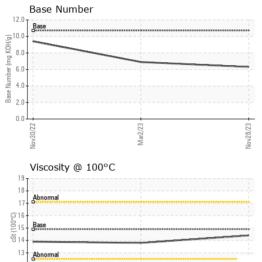
Fluid Condition

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

LE 15W40 (G	AL)	Nov	2022	Mar2023 Nov20	23	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096270	GFL0064441	GFL005560
Sample Date		Client Info		28 Nov 2023	02 Mar 2023	30 Nov 2022
Machine Age	hrs	Client Info		5502	4173	3576
Oil Age	hrs	Client Info		0	4173	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	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 METALS	;	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	38	33	22
	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	6	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	20	26	24
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	5	5	3
Tin	ppm	ASTM D5185m	>15	0	0	<1
	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		62	143	249
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		95	112	116
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		637	489	579
Calcium	ppm	ASTM D5185m		1539	1516	1694
Phosphorus	ppm	ASTM D5185m	760	670	646	760
Zinc	ppm	ASTM D5185m	830	835	798	920
Sulfur	ppm	ASTM D5185m	2770	2716	2185	3265
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	7	7
Sodium	ppm	ASTM D5185m		3	0	1
Potassium	ppm	ASTM D5185m	>20	3	2	<1
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>3	1	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.8	10.5	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	23.6	23.9
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	19.7	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.3	6.9	9.4



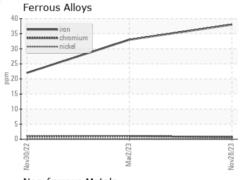
OIL ANALYSIS REPORT

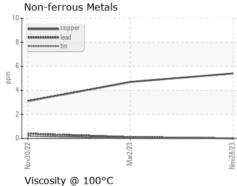


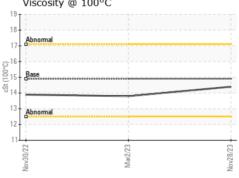
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

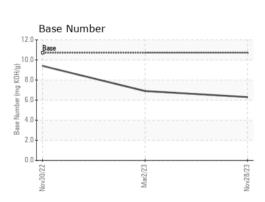
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.9	14.4	13.8	13.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0096270 : 06025531 Unique Number : 10770031

Test Package : FLEET

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)