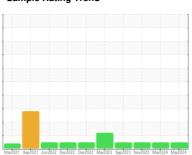


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



410013-1382

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

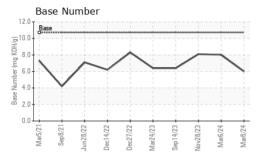
Fluid Condition

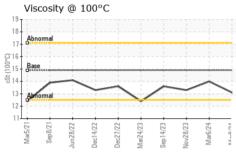
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Mar2021 Sep2	021 Jun2022 Dec2022 Dec2	022 Mar2023 Sep2023 Nov2023 Mar	2024 Mar2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104594	GFL0104596	GFL0096316
Sample Date		Client Info		08 Mar 2024	06 Mar 2024	28 Nov 2023
Machine Age	hrs	Client Info		7304	7911	7317
Oil Age	hrs	Client Info		609	7911	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<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	>100	25	0	14
Chromium	ppm	ASTM D5185m	>20	1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		7	6	6
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	2	4
Lead	ppm	ASTM D5185m	>40	6	0	0
Copper	ppm	ASTM D5185m	>330	0	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	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		98	309	191
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		84	62	90
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		717	537	644
Calcium	ppm	ASTM D5185m		1597	1438	1457
Phosphorus	ppm		760	772	830	711
Zinc	ppm		830	907	961	832
Sulfur	ppm	ASTM D5185m		3145	3416	2722
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	6
Sodium	ppm	ASTM D5185m		5	4	3
Potassium	ppm	ASTM D5185m	>20	8	2	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.4	5.8	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	19.3	23.1
FLUID DEGRA	OITAD	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	13.3	17.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.0	8.0	8.1



OIL ANALYSIS REPORT

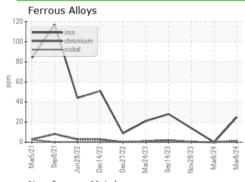


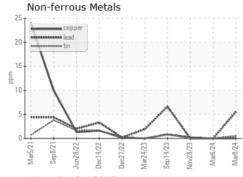


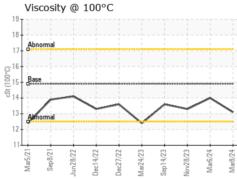
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

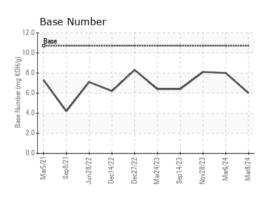
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14.9	13.1	14.0	13.3

GRAPHS













Laboratory Sample No. Lab Number : 06116374 Unique Number : 10925207

: GFL0104594

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 12 Mar 2024 : 13 Mar 2024 Diagnosed : 13 Mar 2024 - Wes Davis

10164 M-32 Elmira, MI US 49730 Contact: ANDY GROBASKI

Test Package : FLEET 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.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

GFL Environmental - 624 - Elmira Hauling

F: