



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
928025-1123
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0096282	GFL0096274	GFL0064407
Sample Date		Client Info		01 Feb 2024	28 Nov 2023	27 Dec 2022
Machine Age	hrs	Client Info		17284	17274	15303
Oil Age	hrs	Client Info		17284	0	0
Filter Age	hrs	Client Info		650	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	42	36	10
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	10	11	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	21	18	6
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	1	1	<1
Tin	ppm	ASTM D5185m	>15	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

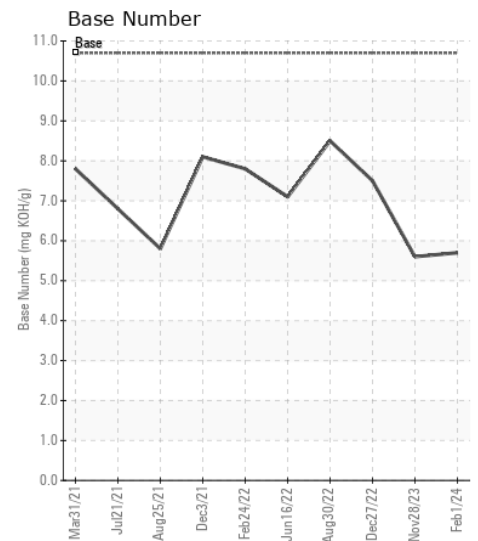
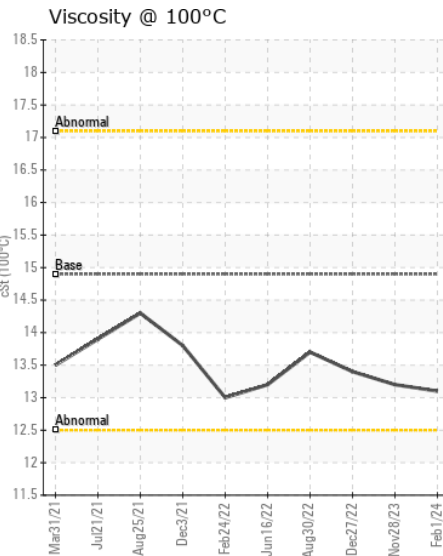
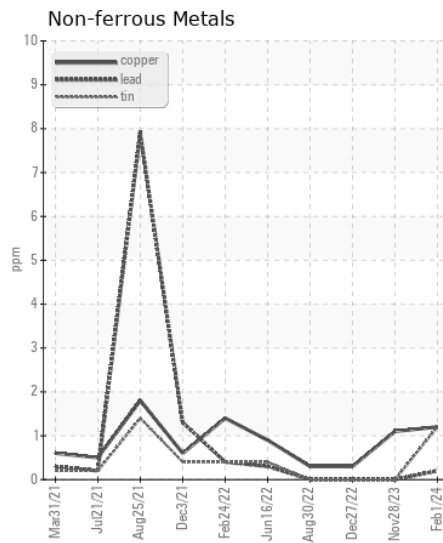
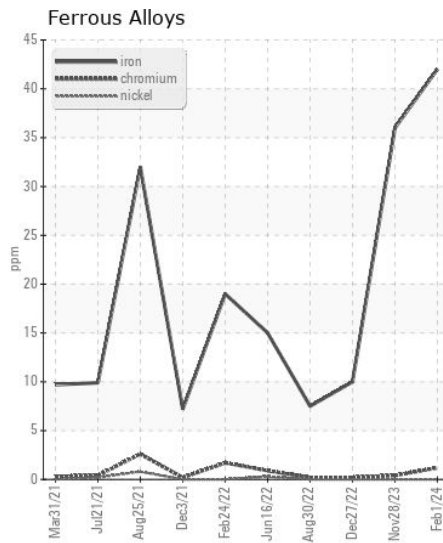
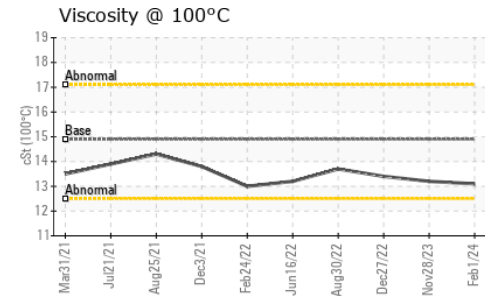
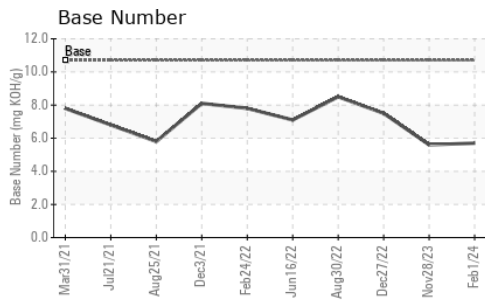
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	12	5
Potassium	ppm	ASTM D5185m	>20	2	4	4
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
Soot %	%	*ASTM D7844	>4	0.5	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.2	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	21.8	21.3
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

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.

Sodium	ppm	ASTM D5185m		7	4	1
Boron	ppm	ASTM D5185m		84	85	90
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		53	52	118
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		702	653	458
Calcium	ppm	ASTM D5185m		1460	1436	1728
Phosphorus	ppm	ASTM D5185m	760	710	673	770
Zinc	ppm	ASTM D5185m	830	839	791	923
Sulfur	ppm	ASTM D5185m	2770	2931	2954	3161
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	16.0	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	5.7	5.6	7.5
Visc @ 100°C	cSt	ASTM D445	14.9	13.1	13.2	13.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0096282
Lab Number : 06084182
Unique Number : 10871627
Test Package : FLEET

Received : 08 Feb 2024
Tested : 09 Feb 2024
Diagnosed : 12 Feb 2024 - Don Baldrige

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)

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