



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**929054-182539**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0121414</b>	GFL0113741	GFL0113740
Sample Date		Client Info		<b>25 Jun 2024</b>	03 May 2024	29 Apr 2024
Machine Age	hrs	Client Info		<b>12899</b>	12502	0
Oil Age	hrs	Client Info		<b>397</b>	1645	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>2</b>	9	4
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	5	3
Lead	ppm	ASTM D5185m	>45	<b>0</b>	1	0
Copper	ppm	ASTM D5185m	>85	<b>0</b>	0	0
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

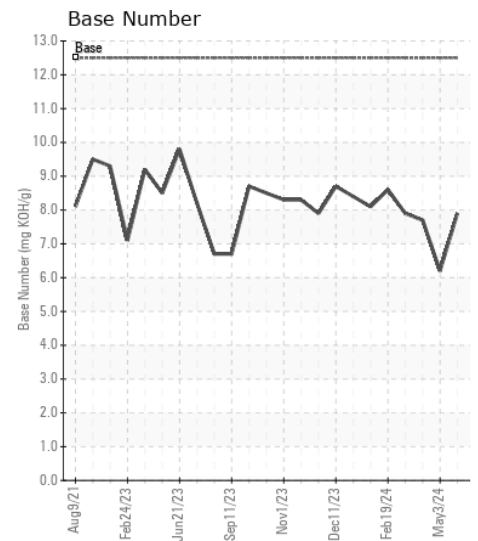
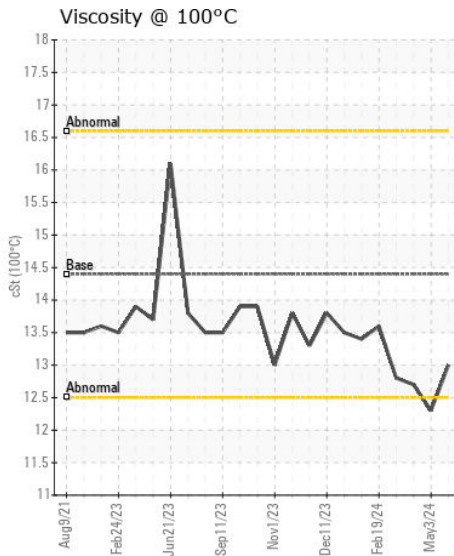
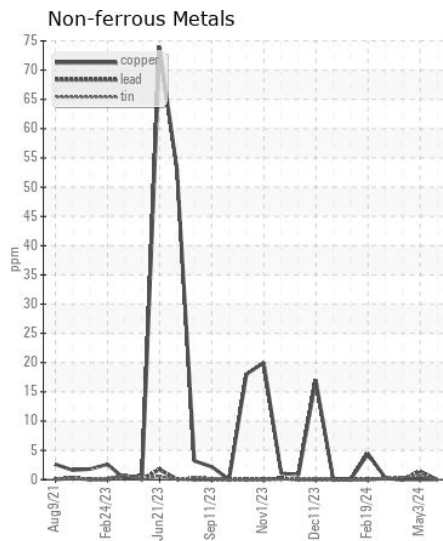
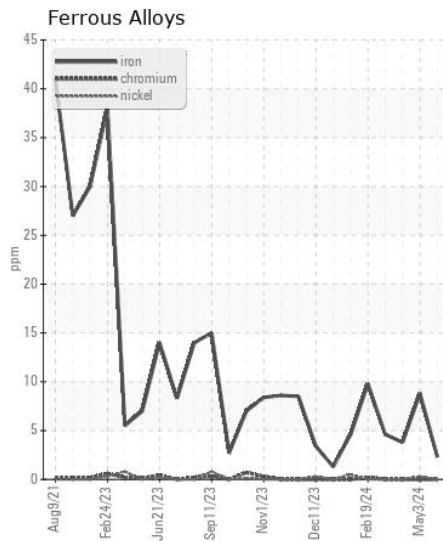
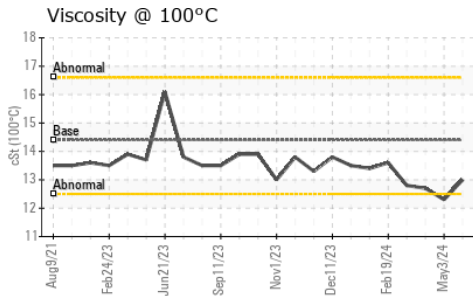
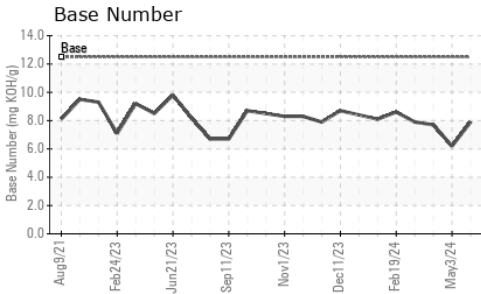
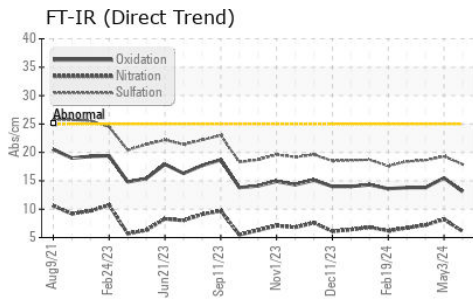
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>3</b>	8	3
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	4	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	1.6	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.1</b>	8.2	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.9</b>	19.3	18.6
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>&lt;1</b>	6	22
Boron	ppm	ASTM D5185m	151	<b>14</b>	6	6
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	250	<b>65</b>	62	73
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>903</b>	838	879
Calcium	ppm	ASTM D5185m	2046	<b>1114</b>	995	1040
Phosphorus	ppm	ASTM D5185m	1043	<b>1031</b>	924	979
Zinc	ppm	ASTM D5185m	943	<b>1226</b>	1122	1162
Sulfur	ppm	ASTM D5185m	5012	<b>3462</b>	2834	3188
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.1</b>	15.5	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	<b>7.9</b>	6.2	7.7
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.0</b>	12.3	12.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0121414  
**Lab Number** : 06228312  
**Unique Number** : 11111805  
**Test Package** : FLEET

**Received** : 05 Jul 2024  
**Tested** : 05 Jul 2024  
**Diagnosed** : 08 Jul 2024 - Don Baldrige

**GFL environmental - 867 - Trafford (Blount Hauling)**  
 1130 County Line Rd  
 Trafford, AL  
 US 35172

Contact: Jonathan Williams  
 jonathan.williams@gflenv.com

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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F: