



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

Area

**(DQR690)**

Machine Id

**3702**

Component

**Diesel Engine**

Fluid

**CHEVRON DELO 400 SDE SAE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0072166</b>	GFL0072168	GFL0072072
Sample Date		Client Info		<b>26 Jun 2024</b>	20 Jun 2024	05 Mar 2024
Machine Age	hrs	Client Info		<b>23284</b>	23235	22667
Oil Age	hrs	Client Info		<b>49</b>	589	600
Filter Age	hrs	Client Info		<b>0</b>	589	600
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>5</b>	11	15
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>3</b>	3	2
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>1</b>	4	4
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

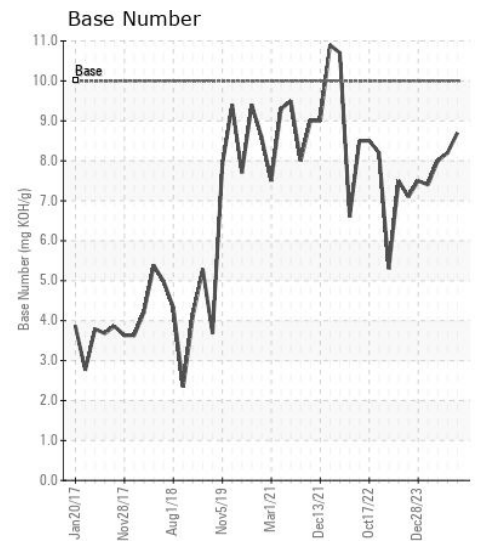
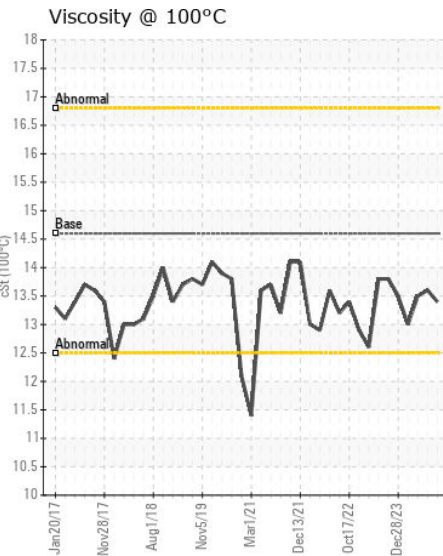
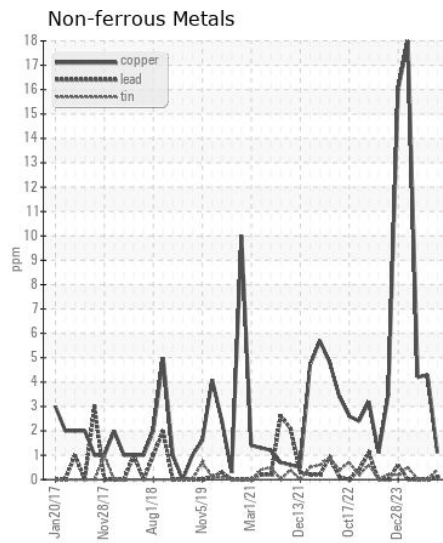
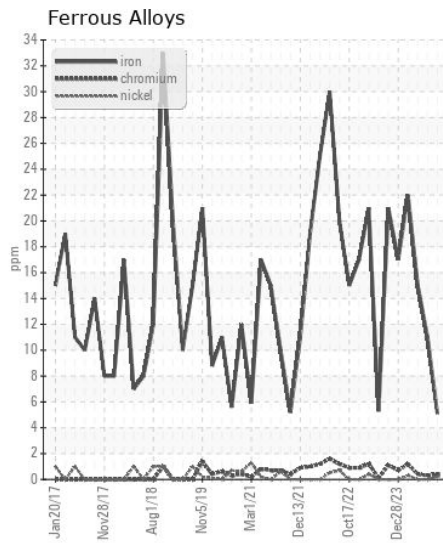
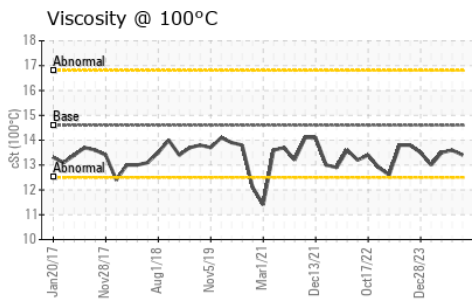
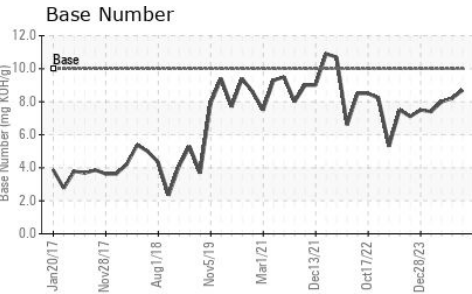
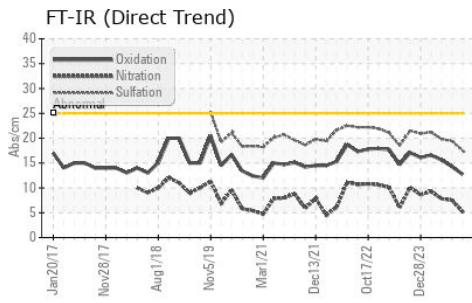
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	9	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	0
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.2</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.2</b>	7.5	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.5</b>	19.4	19.8
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>2</b>	11	15
Boron	ppm	ASTM D5185m		<b>3</b>	3	2
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>62</b>	61	62
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>883</b>	915	1039
Calcium	ppm	ASTM D5185m		<b>1056</b>	1052	1150
Phosphorus	ppm	ASTM D5185m	760	<b>985</b>	938	1092
Zinc	ppm	ASTM D5185m	800	<b>1164</b>	1261	1324
Sulfur	ppm	ASTM D5185m	3000	<b>2722</b>	2838	3638
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.7</b>	14.3	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	10	<b>8.7</b>	8.2	8.0
Visc @ 100°C	cSt	ASTM D445	14.6	<b>13.4</b>	13.6	13.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0072166  
**Lab Number** : 06226014  
**Unique Number** : 11109507  
**Test Package** : FLEET

**Received** : 02 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 03 Jul 2024 - Wes Davis

**GFL Environmental - 094 - Cedartown**  
 2097 Buchanan Highway  
 Cedartown, GA  
 US 30125  
 Contact: WILLIAM FOSTER  
 william.foster@gflenv.com  
 T: (800)207-6618  
 F:

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)