



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

Area  
**(YA115780)**

Machine Id  
**10374C**

Component  
**Natural Gas Engine**

Fluid  
**CHEVRON DELO 400 NG (30 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0123397</b>	GFL0123432	GFL0082450
Sample Date		Client Info		<b>18 Jun 2024</b>	30 May 2024	28 Aug 2023
Machine Age	hrs	Client Info		<b>98061</b>	14835	13590
Oil Age	hrs	Client Info		<b>98061</b>	150	445
Filter Age	hrs	Client Info		<b>98061</b>	150	445
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>6</b>	4	14
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>1</b>	<1	2
Lead	ppm	ASTM D5185m	>30	<b>1</b>	<1	1
Copper	ppm	ASTM D5185m	>35	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	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.

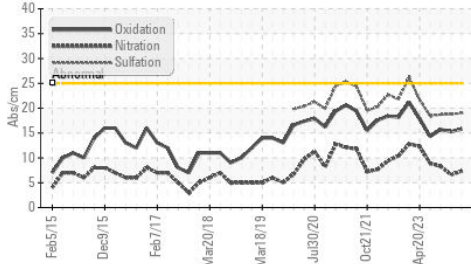
Silicon	ppm	ASTM D5185m	>+100	<b>4</b>	3	4
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	2	4
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.3</b>	6.6	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.0</b>	18.8	18.7
Silt	scalar	*Visual	NONE	<b>NONE</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	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

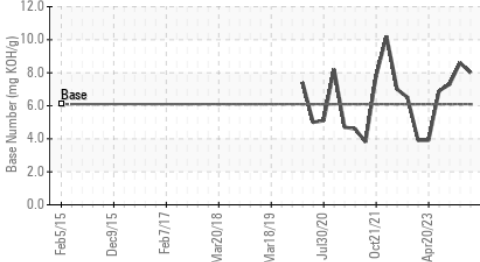
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>6</b>	4	6
Boron	ppm	ASTM D5185m		<b>35</b>	42	22
Barium	ppm	ASTM D5185m		<b>0</b>	0	44
Molybdenum	ppm	ASTM D5185m		<b>51</b>	49	48
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>637</b>	604	511
Calcium	ppm	ASTM D5185m		<b>1760</b>	1719	1420
Phosphorus	ppm	ASTM D5185m	800	<b>892</b>	878	703
Zinc	ppm	ASTM D5185m	880	<b>1108</b>	1066	882
Sulfur	ppm	ASTM D5185m		<b>3195</b>	3173	2587
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.8</b>	15.3	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	<b>8.0</b>	8.6	7.3
Visc @ 100°C	cSt	ASTM D445	15.8	<b>14.5</b>	14.5	14.6

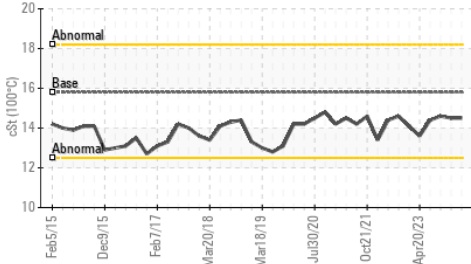
**FT-IR (Direct Trend)**



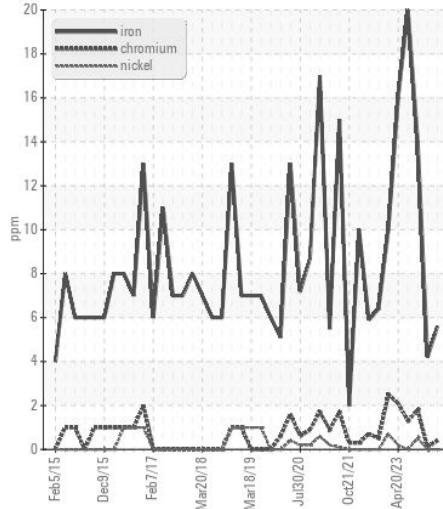
**Base Number**



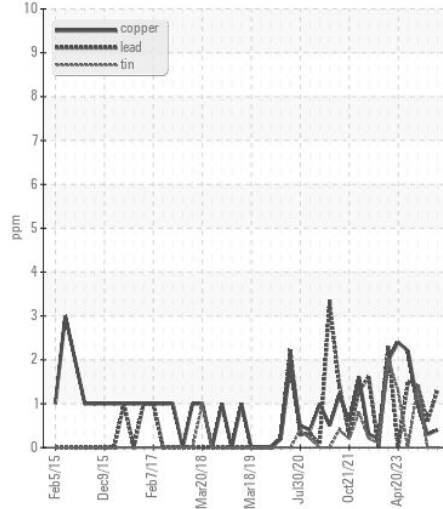
**Viscosity @ 100°C**



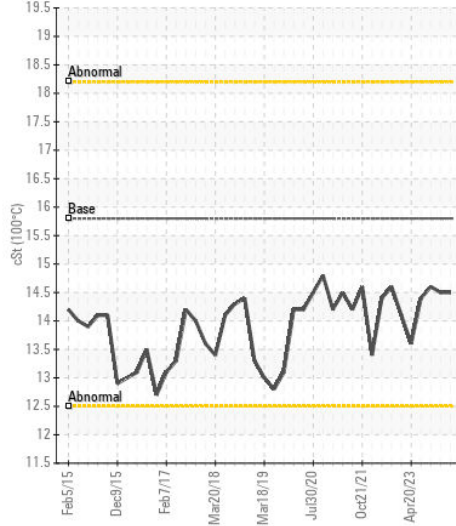
**Ferrous Alloys**



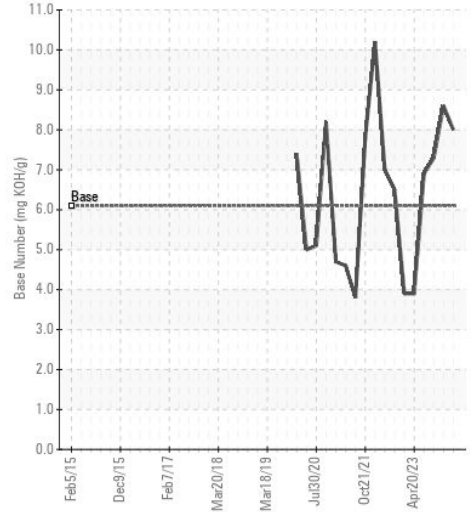
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0123397  
**Lab Number** : 06215664  
**Unique Number** : 11088528  
**Test Package** : FLEET

**Received** : 20 Jun 2024  
**Tested** : 21 Jun 2024  
**Diagnosed** : 21 Jun 2024 - Wes Davis

**GFL Environmental - 007 - Brunswick**  
 2809 Galloway Road  
 Bolivia, NC  
 US 28422  
 Contact: DONALD CRAVEN  
 dcraven@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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