



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

Machine Id  
**CUMMINS 10804**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 40 (8 GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0109075</b>	GFL0086190	GFL0086218
Sample Date		Client Info		<b>08 Feb 2024</b>	27 Sep 2023	12 Sep 2023
Machine Age	hrs	Client Info		<b>16346</b>	14854	14854
Oil Age	hrs	Client Info		<b>16346</b>	15890	15764
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>18</b>	9	7
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>11</b>	7	7
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

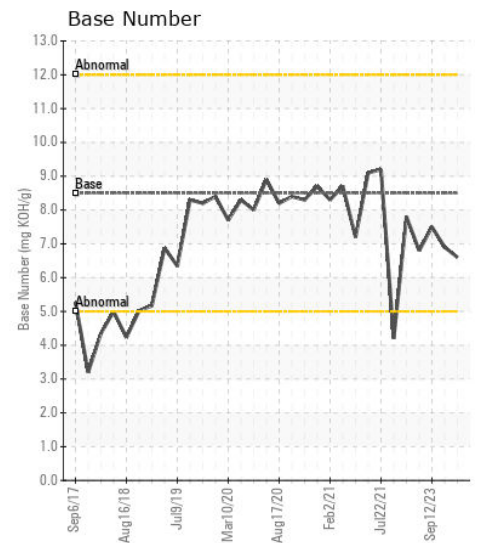
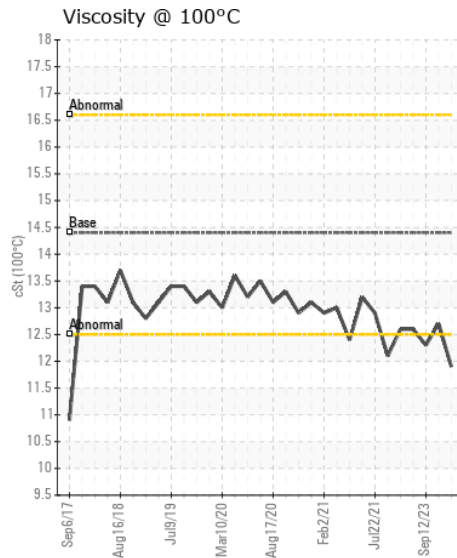
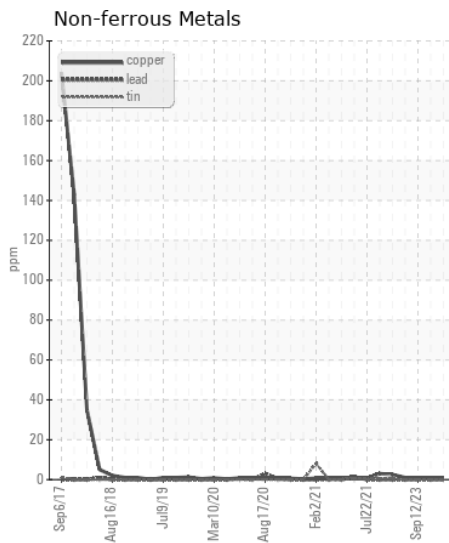
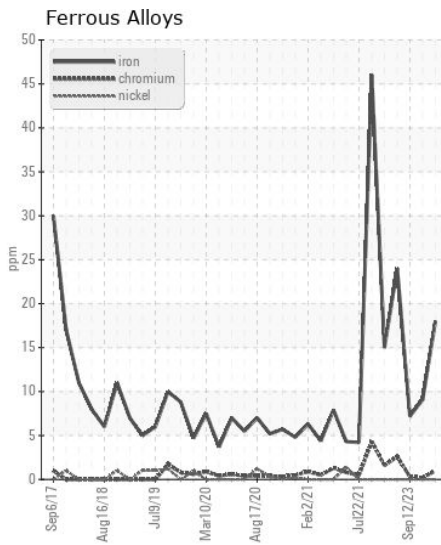
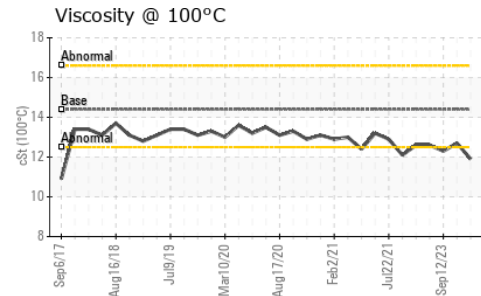
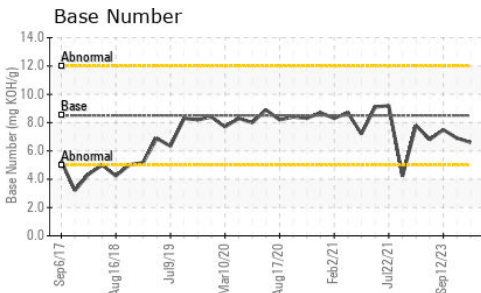
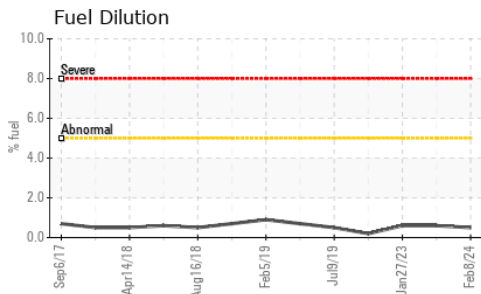
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	14	<1
Fuel	%	ASTM D3524	>5	<b>0.5</b>	<1.0	0.6
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.4</b>	7.7	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.1</b>	18.1	16.5
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	>216	<b>0</b>	<1	2
Boron	ppm	ASTM D5185m	250	<b>12</b>	11	19
Barium	ppm	ASTM D5185m	10	<b>8</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>65</b>	62	62
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>728</b>	804	803
Calcium	ppm	ASTM D5185m	3000	<b>1004</b>	1098	1129
Phosphorus	ppm	ASTM D5185m	1150	<b>808</b>	928	951
Zinc	ppm	ASTM D5185m	1350	<b>1045</b>	1156	1119
Sulfur	ppm	ASTM D5185m	4250	<b>2697</b>	2877	3376
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.2</b>	13.7	11.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>6.6</b>	6.9	7.5
Visc @ 100°C	cSt	ASTM D445	14.4	<b>11.9</b>	12.7	12.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109075 **Received** : 14 Feb 2024  
**Lab Number** : 06088471 **Tested** : 15 Feb 2024  
**Unique Number** : 10875916 **Diagnosed** : 15 Feb 2024 - Wes Davis  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**GFL Environmental - 009 - Fairburn**  
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 Fairburn, GA  
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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)