



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



Machine Id  
**FREIGHTLINER 122040-SW8201**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC ELITE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0111273</b>	GFL0111316	GFL0095453
Sample Date		Client Info		<b>10 Jul 2024</b>	25 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info		<b>3842</b>	3386	2906
Oil Age	hrs	Client Info		<b>456</b>	480	500
Filter Age	hrs	Client Info		<b>0</b>	0	500
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	<b>5</b>	5	2
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>30	<b>7</b>	5	4
Lead	ppm	ASTM D5185m	>30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>150	<b>20</b>	28	17
Tin	ppm	ASTM D5185m	>5	<b>1</b>	2	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**

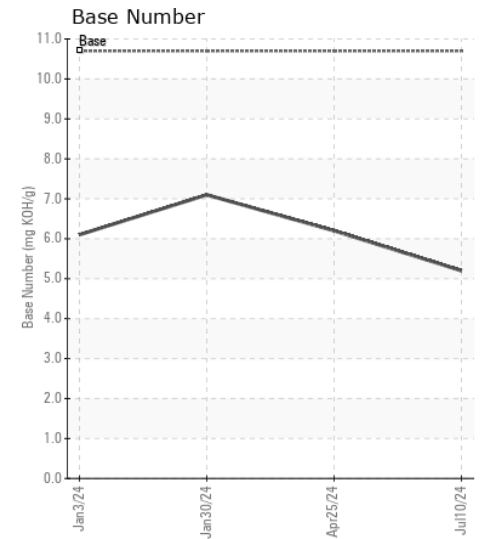
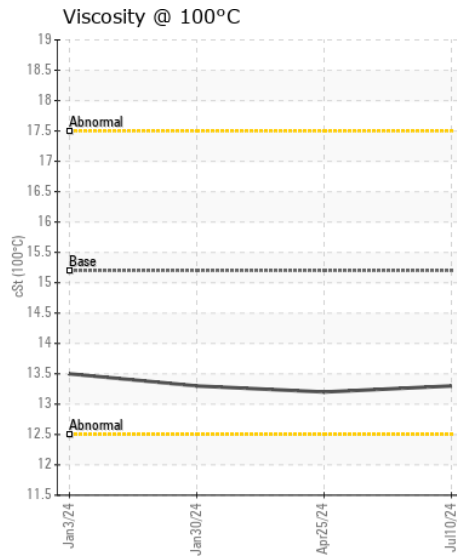
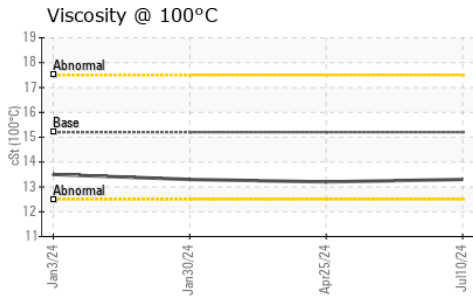
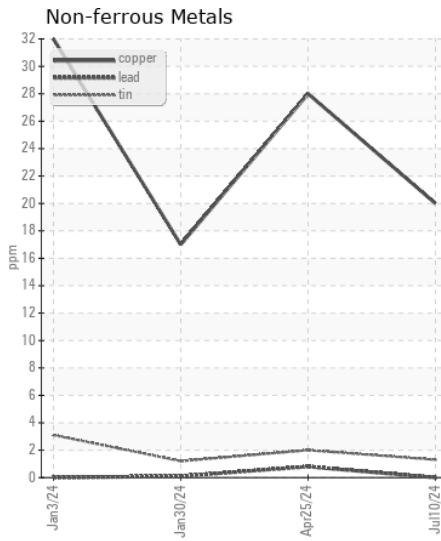
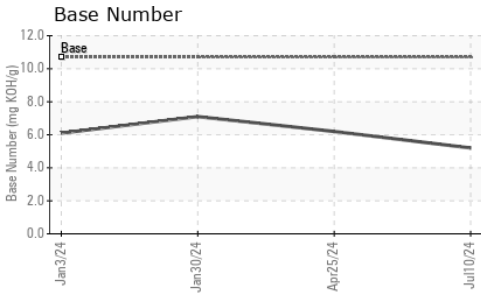
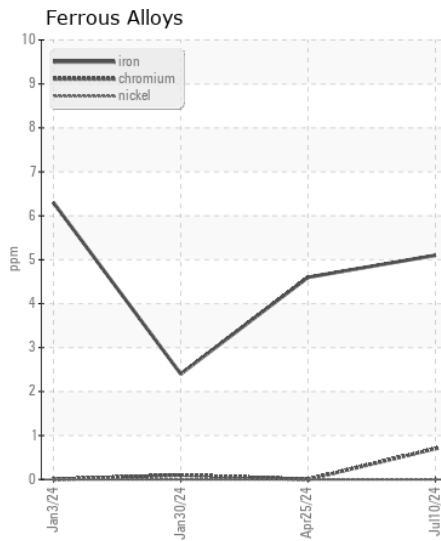
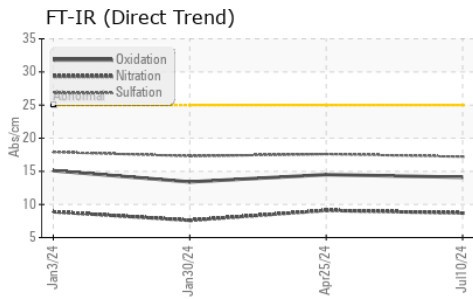
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>19</b>	8	4
Fuel		WC Method	>5	<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	>3	<b>0.2</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.7</b>	9.1	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.2</b>	17.6	17.3
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>	2	10
Boron	ppm	ASTM D5185m		<b>66</b>	89	122
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>116</b>	130	118
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>625</b>	701	629
Calcium	ppm	ASTM D5185m		<b>1137</b>	1256	1135
Phosphorus	ppm	ASTM D5185m		<b>682</b>	805	679
Zinc	ppm	ASTM D5185m		<b>817</b>	885	769
Sulfur	ppm	ASTM D5185m		<b>2901</b>	3845	2917
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.1</b>	14.5	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>5.2</b>	6.2	7.1
Visc @ 100°C	cSt	ASTM D445	15.2	<b>13.3</b>	13.2	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0111273  
**Lab Number** : 06241372  
**Unique Number** : 11130206  
**Test Package** : FLEET

**GFL Environmental - 981 - Port Arthur Hauling**  
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 Port Arthur, TX  
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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)