



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

Machine Id  
**KENWORTH 427204-SW4830**  
 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>GFL0111338</b>	GFL0095441	---
Sample Date		Client Info		<b>06 Feb 2024</b>	29 Nov 2023	---
Machine Age	hrs	Client Info		<b>14931</b>	14518	---
Oil Age	hrs	Client Info		<b>0</b>	500	---
Filter Age	hrs	Client Info		<b>0</b>	500	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	MARGINAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>5</b>	11	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	1	---
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	1	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

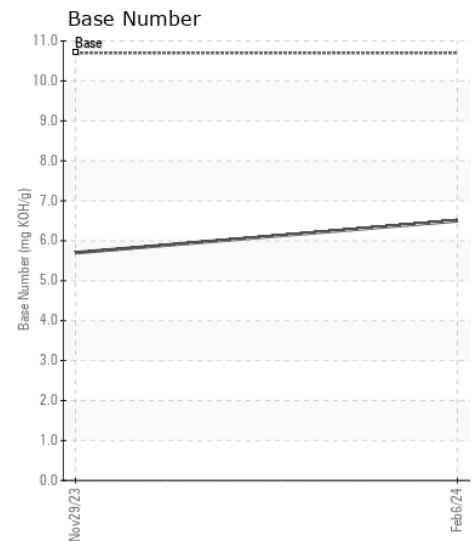
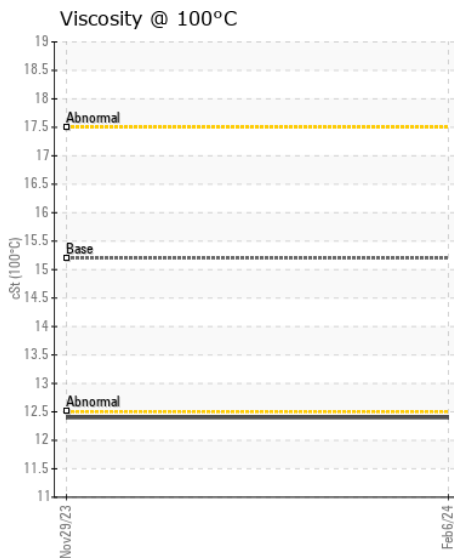
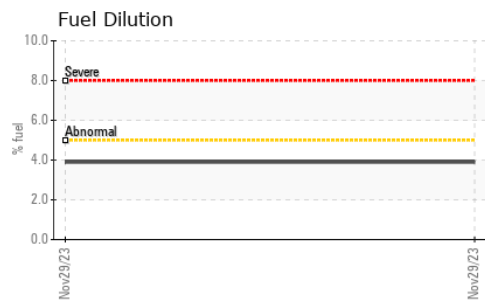
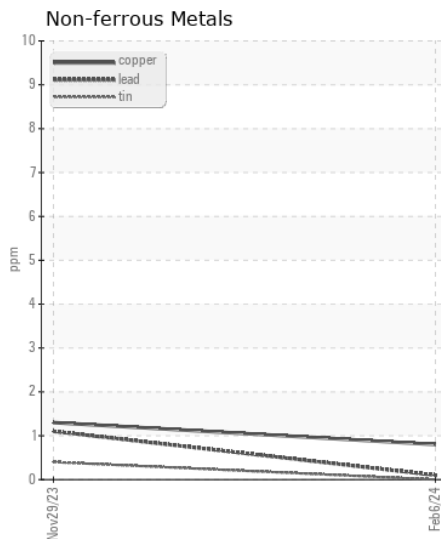
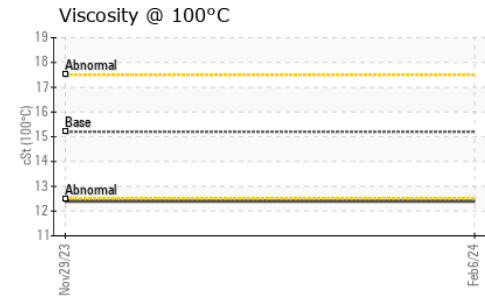
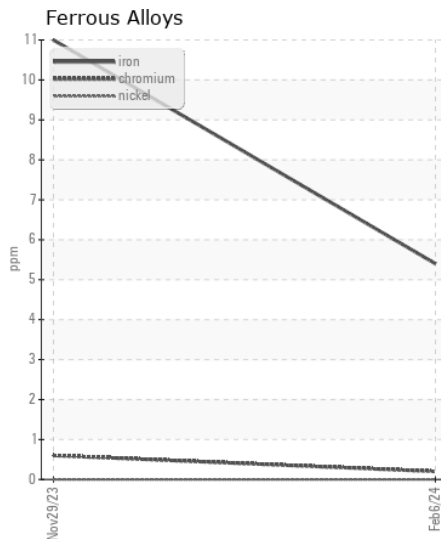
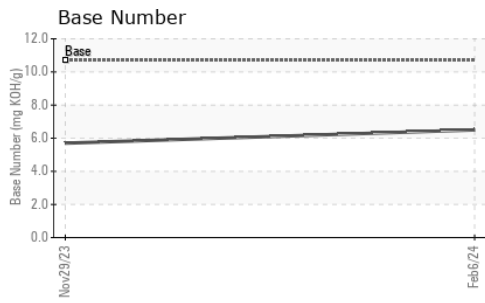
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	---
Fuel	%	ASTM D3524	>5	<b>&lt;1.0</b>	▲ 3.9	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	9.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.0</b>	18.6	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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>	0	---
Boron	ppm	ASTM D5185m		<b>98</b>	● 92	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>116</b>	125	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>630</b>	● 636	---
Calcium	ppm	ASTM D5185m		<b>1243</b>	1192	---
Phosphorus	ppm	ASTM D5185m		<b>695</b>	● 643	---
Zinc	ppm	ASTM D5185m		<b>774</b>	● 790	---
Sulfur	ppm	ASTM D5185m		<b>3068</b>	3501	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.0</b>	14.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>6.5</b>	5.7	---
Visc @ 100°C	cSt	ASTM D445	15.2	<b>12.4</b>	12.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0111338 **Received** : 27 Feb 2024  
**Lab Number** : 06101352 **Tested** : 29 Feb 2024  
**Unique Number** : 10899582 **Diagnosed** : 29 Feb 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FUELDILUTION, PercentFuel )

**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)