



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

Machine Id  
**INTERNATIONAL 125060-SWV6517**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC ELITE 15W40 (--- GAL)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0111326</b>	GFL0111261	GFL0111351
Sample Date		Client Info		<b>31 May 2024</b>	04 Apr 2024	25 Jan 2024
Machine Age	hrs	Client Info		<b>21445</b>	20945	20395
Oil Age	hrs	Client Info		<b>500</b>	550	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>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>18</b>	38	9
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	▲ 15	5
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	0
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**

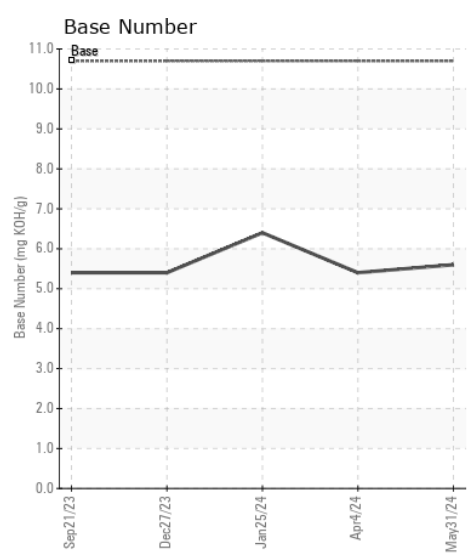
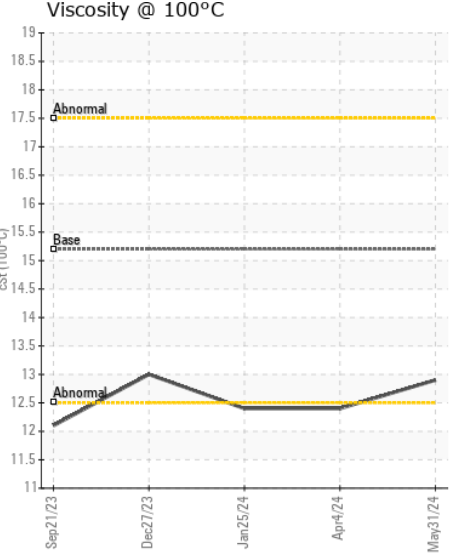
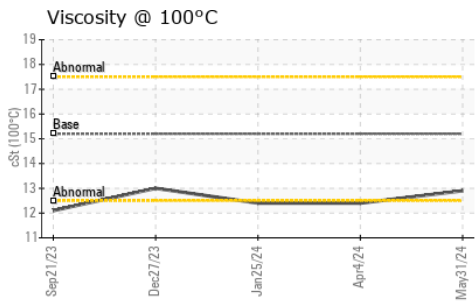
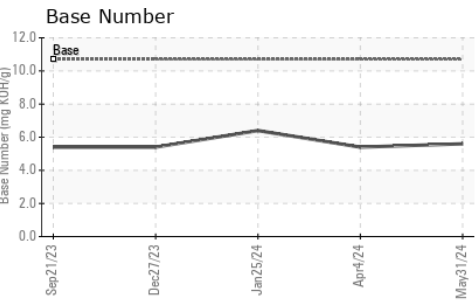
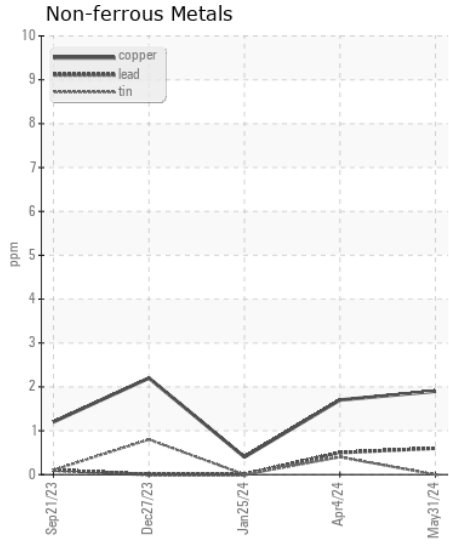
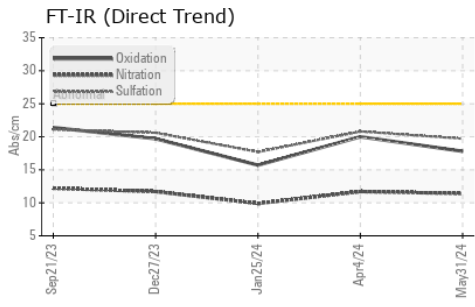
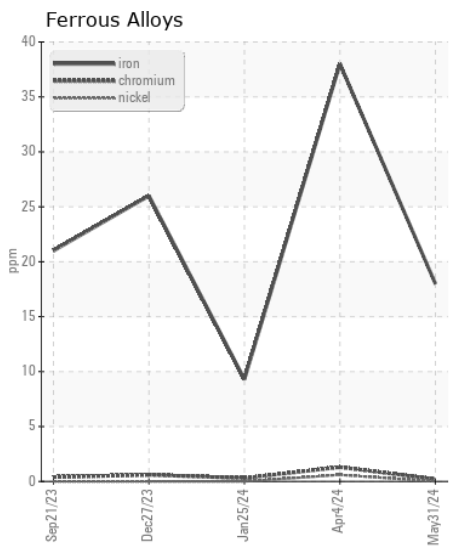
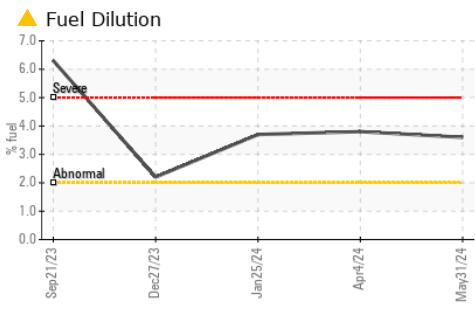
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	8	5
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	14	1
Fuel	%	ASTM D3524	>2.0	▲ <b>3.6</b>	▲ 3.8	▲ 3.7
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.4</b>	11.7	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	20.8	17.7
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	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>5</b>	1	2
Boron	ppm	ASTM D5185m		<b>40</b>	51	105
Barium	ppm	ASTM D5185m		<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m		<b>125</b>	139	117
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>669</b>	685	608
Calcium	ppm	ASTM D5185m		<b>1256</b>	1280	1111
Phosphorus	ppm	ASTM D5185m		<b>787</b>	722	662
Zinc	ppm	ASTM D5185m		<b>867</b>	856	752
Sulfur	ppm	ASTM D5185m		<b>3850</b>	3186	2839
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.8</b>	20.0	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>5.6</b>	5.4	6.4
Visc @ 100°C	cSt	ASTM D445	15.2	<b>12.9</b>	▲ 12.4	▲ 12.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0111326 **Received** : 09 Jul 2024  
**Lab Number** : 06231226 **Tested** : 11 Jul 2024  
**Unique Number** : 11114719 **Diagnosed** : 11 Jul 2024 - Wes Davis  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

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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)