



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**3413019**  
 Component  
**Diesel Engine**  
 Fluid  
**VALVOLINE 15W40 (--- GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

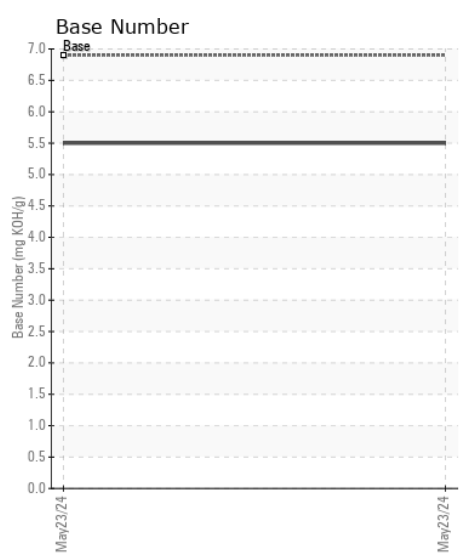
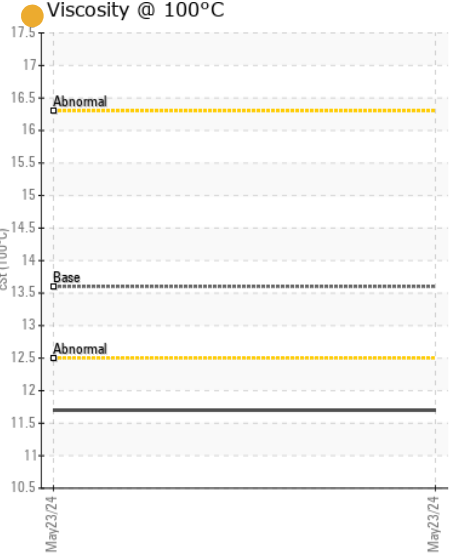
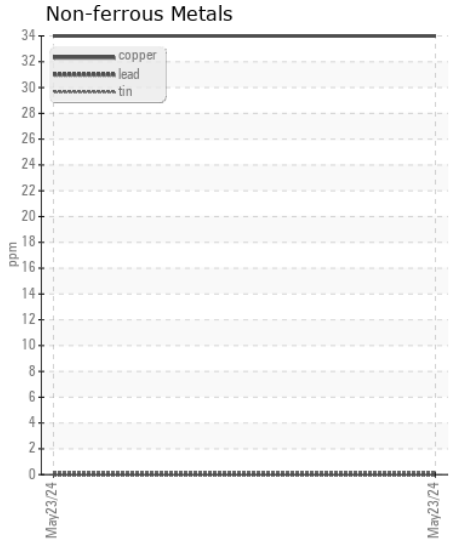
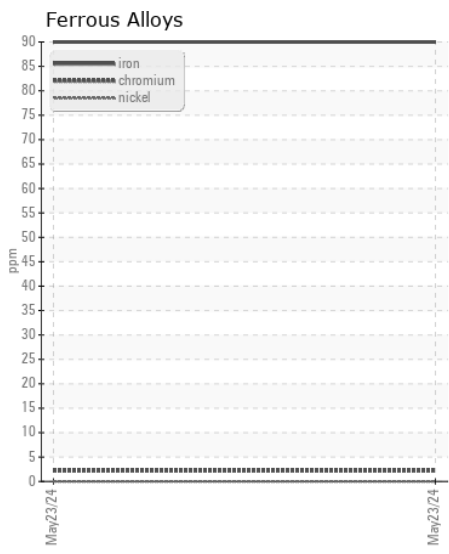
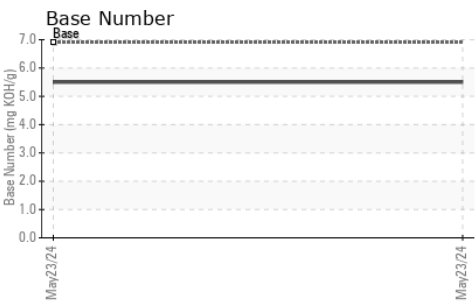
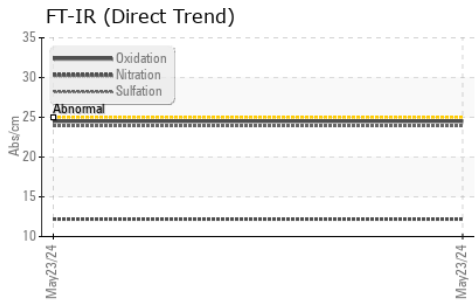
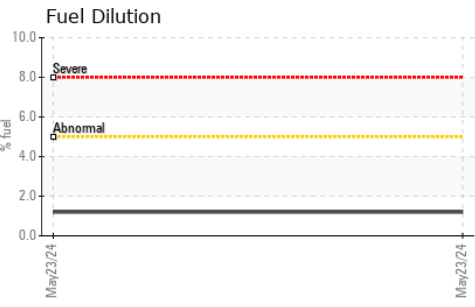
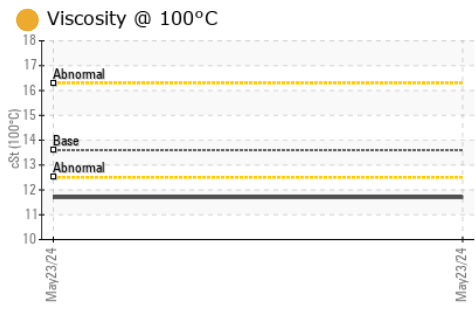
### CONTAMINATION

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

### FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0035913</b>	---	---
Sample Date		Client Info		<b>23 May 2024</b>	---	---
Machine Age	mls	Client Info		<b>16121</b>	---	---
Oil Age	mls	Client Info		<b>0</b>	---	---
Filter Age	mls	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---
Iron	ppm	ASTM D5185m	>100	<b>90</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>34</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silicon	ppm	ASTM D5185m	>25	<b>24</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>19</b>	---	---
Fuel	%	ASTM D3524	>5	<b>1.2</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.9</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---
Sodium	ppm	ASTM D5185m		<b>7</b>	---	---
Boron	ppm	ASTM D5185m	39	<b>17</b>	---	---
Barium	ppm	ASTM D5185m	1	<b>4</b>	---	---
Molybdenum	ppm	ASTM D5185m	49	<b>52</b>	---	---
Manganese	ppm	ASTM D5185m	1	<b>6</b>	---	---
Magnesium	ppm	ASTM D5185m	616	<b>821</b>	---	---
Calcium	ppm	ASTM D5185m	1554	<b>1398</b>	---	---
Phosphorus	ppm	ASTM D5185m	899	<b>725</b>	---	---
Zinc	ppm	ASTM D5185m	1069	<b>910</b>	---	---
Sulfur	ppm	ASTM D5185m	2624	<b>2734</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>24.5</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	<b>5.5</b>	---	---
Visc @ 100°C	cSt	ASTM D445	13.6	<b>11.7</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0035913 **Received** : 29 May 2024  
**Lab Number** : 06193558 **Tested** : 31 May 2024  
**Unique Number** : 11050310 **Diagnosed** : 31 May 2024 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: FuelDilution, 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)