



# WEAR CHECK

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**4583**  
 Component  
**Diesel Engine**  
 Fluid  
**CITGO CITGUARD 600 15W40 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. 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.

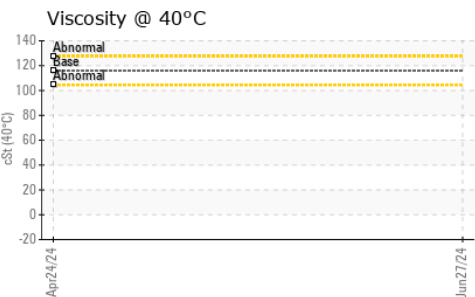
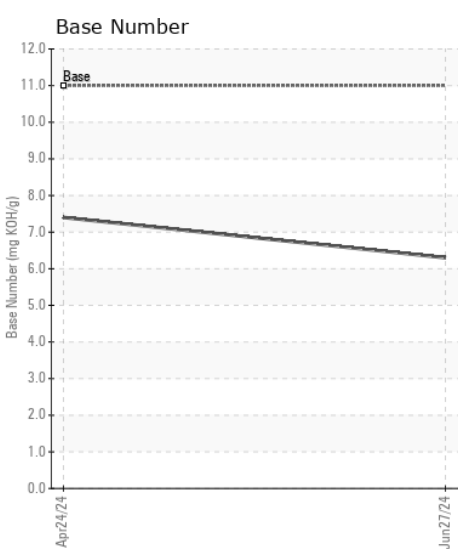
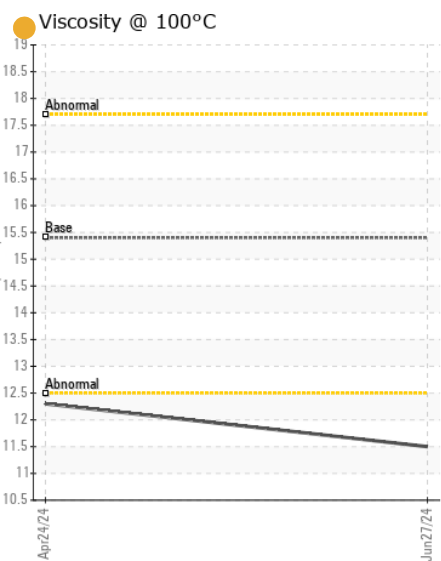
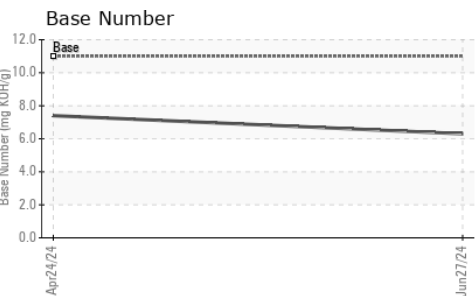
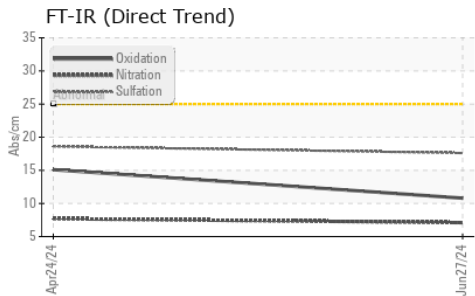
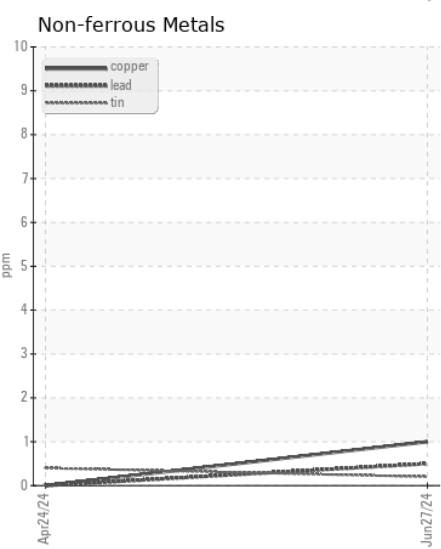
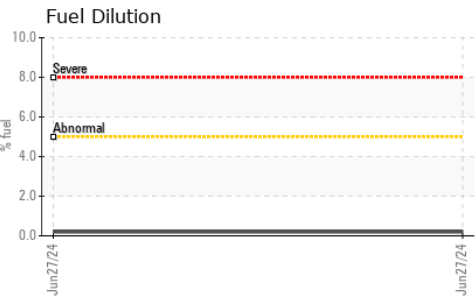
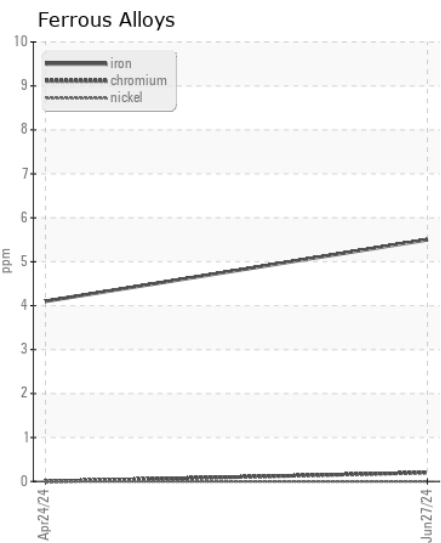
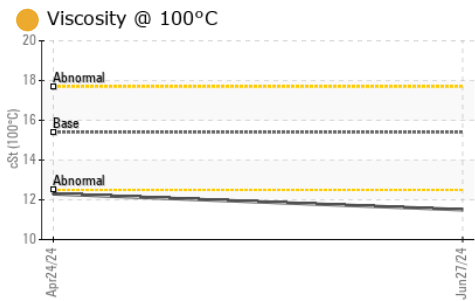
### CONTAMINATION

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>WC0901423</b>	WC0901408	---
Sample Date		Client Info		<b>27 Jun 2024</b>	24 Apr 2024	---
Machine Age	mls	Client Info		<b>559017</b>	16331	---
Oil Age	mls	Client Info		<b>14957</b>	16331	---
Filter Age	mls	Client Info		<b>14957</b>	16331	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>ATTENTION</b>	NORMAL	---
Iron	ppm	ASTM D5185m	>100	<b>6</b>	4	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
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>	0	---
Copper	ppm	ASTM D5185m	>330	<b>1</b>	0	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Fuel	%	ASTM D3524	>5	<b>0.2</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.1</b>	7.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.6</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	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Boron	ppm	ASTM D5185m	13	<b>5</b>	9	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	57	<b>22</b>	76	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	825	<b>157</b>	466	---
Calcium	ppm	ASTM D5185m	1100	<b>2359</b>	1761	---
Phosphorus	ppm	ASTM D5185m	933	<b>989</b>	1068	---
Zinc	ppm	ASTM D5185m	1089	<b>1195</b>	1244	---
Sulfur	ppm	ASTM D5185m	2769	<b>4437</b>	3665	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>10.8</b>	15.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>6.3</b>	7.4	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>11.5</b>	12.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0901423 **Received** : 01 Jul 2024  
**Lab Number** : 06224365 **Tested** : 03 Jul 2024  
**Unique Number** : 11102562 **Diagnosed** : 03 Jul 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FuelDilution, KV40, PercentFuel )

**OMNISOURCE SE**  
 1426 WEST MAIN SHOP  
 KERNERSVILLE, NC  
 US 27284  
 Contact: JEFF HENDRIX

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)

T:  
F: