



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Store 9 - Marietta**  
 Machine Id  
**CHEVY 3500HD 1GB3KYCX6JF154948**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0036084</b>	LEC0016530	---
Sample Date		Client Info		<b>10 Oct 2022</b>	10 Sep 2020	---
Machine Age	mls	Client Info		<b>202973</b>	133516	---
Oil Age	mls	Client Info		<b>69457</b>	20799	---
Filter Age	mls	Client Info		<b>69457</b>	20799	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>19</b>	22	---
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>7</b>	13	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>1</b>	2	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

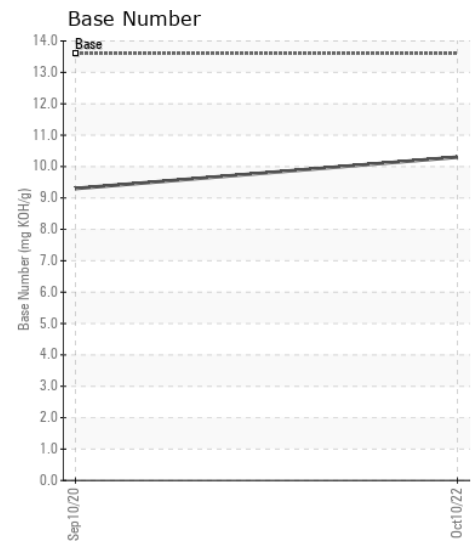
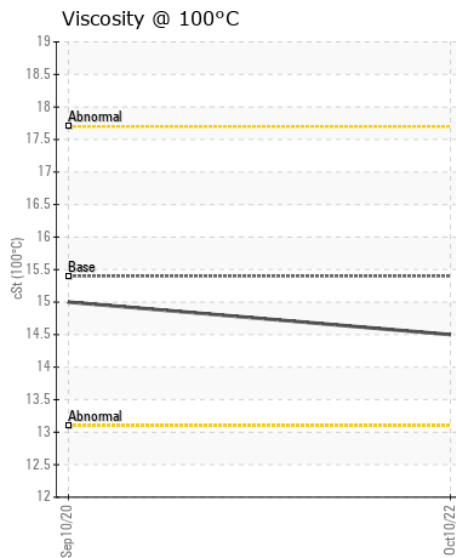
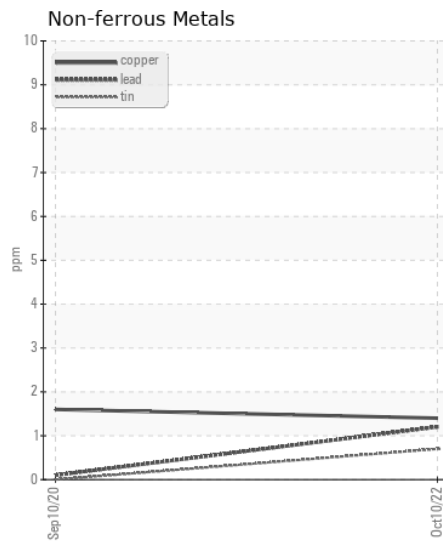
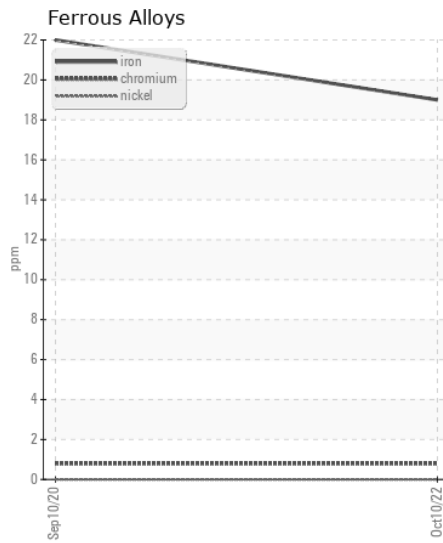
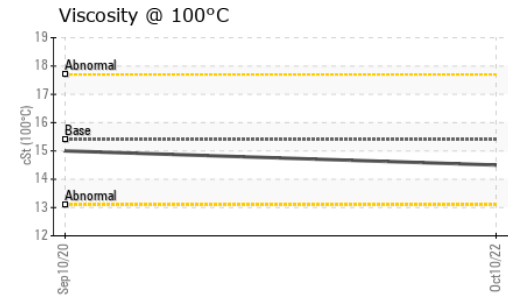
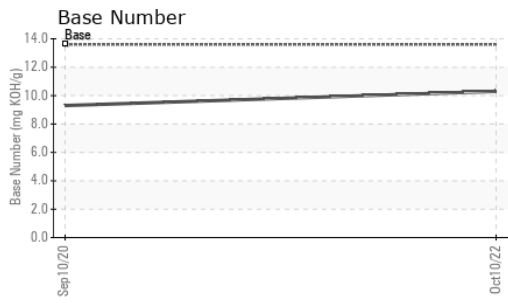
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>9</b>	10	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	16	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.9</b>	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.9</b>	24	---
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>0</b>	2	---
Boron	ppm	ASTM D5185m		<b>216</b>	207	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>240</b>	264	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>818</b>	882	---
Calcium	ppm	ASTM D5185m		<b>1530</b>	1467	---
Phosphorus	ppm	ASTM D5185m		<b>911</b>	886	---
Zinc	ppm	ASTM D5185m		<b>1135</b>	1049	---
Sulfur	ppm	ASTM D5185m		<b>3782</b>	2498	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.5</b>	19.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>10.3</b>	9.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.5</b>	15.0	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0036084 **Received** : 12 Oct 2022  
**Lab Number** : 05664913 **Diagnosed** : 14 Oct 2022  
**Unique Number** : 10169482 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

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)

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