



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area

**LAMBERT CONTRACTING [A35364]**

Machine Id

**1FF085GXPPJ024629**

Component

**Diesel Engine**

Fluid

**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: A35364 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007750	---	---
Sample Date		Client Info		07 May 2024	---	---
Machine Age	hrs	Client Info		550	---	---
Oil Age	hrs	Client Info		550	---	---
Filter Age	hrs	Client Info		550	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	33	---	---
Chromium	ppm	ASTM D5185m	>20	1	---	---
Nickel	ppm	ASTM D5185m	>4	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>3	0	---	---
Aluminum	ppm	ASTM D5185m	>20	5	---	---
Lead	ppm	ASTM D5185m	>40	<1	---	---
Copper	ppm	ASTM D5185m	>330	6	---	---
Tin	ppm	ASTM D5185m	>15	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

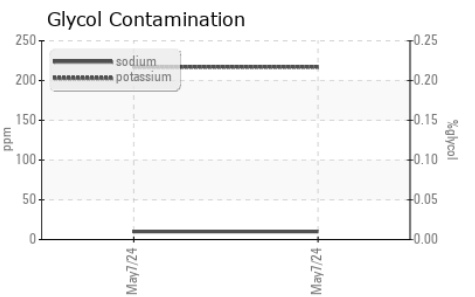
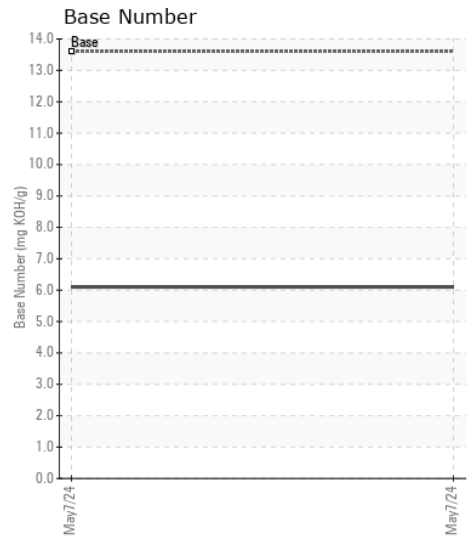
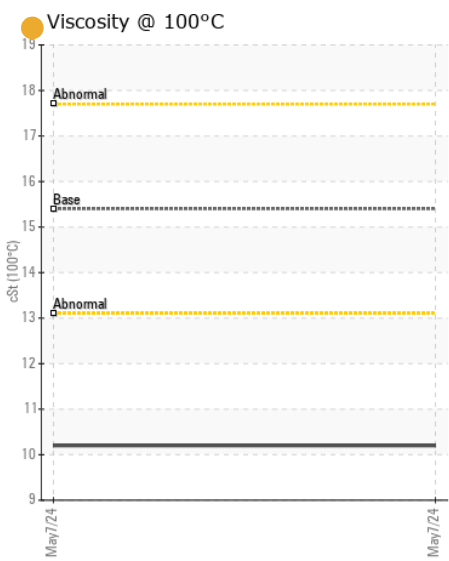
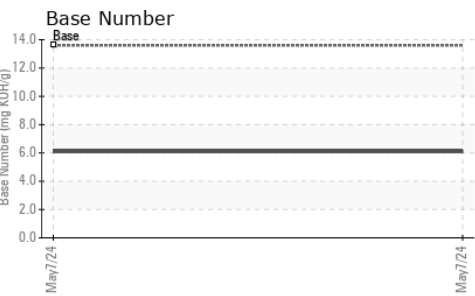
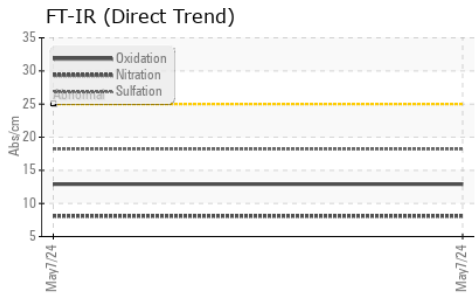
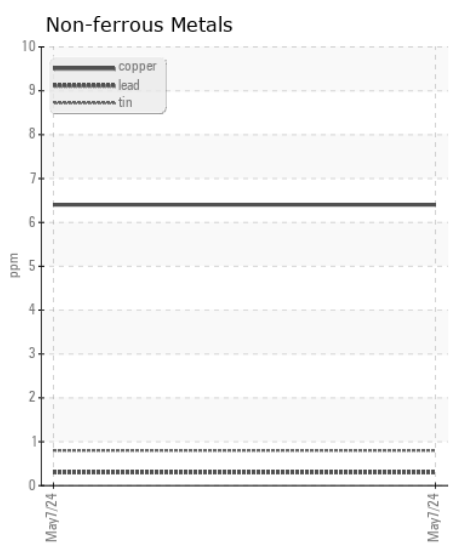
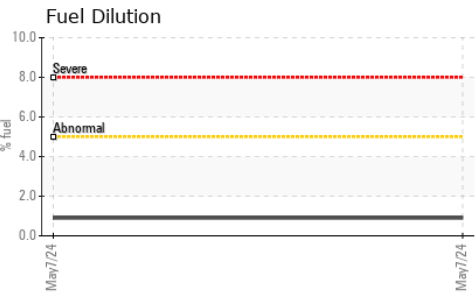
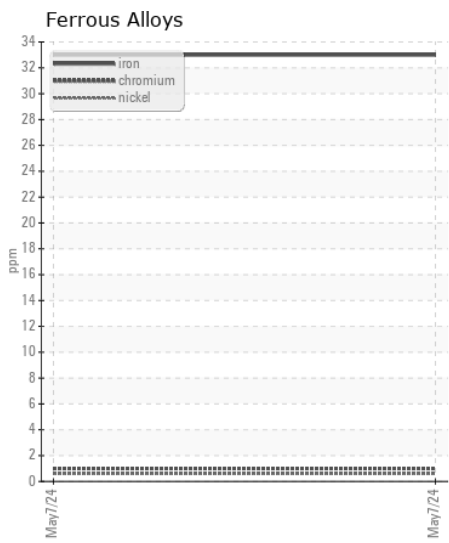
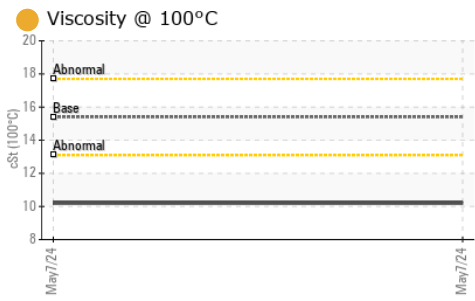
Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>25	44	---	---
Potassium	ppm	ASTM D5185m	>20	217	---	---
Fuel	%	ASTM D3524	>5	0.9	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	*ASTM D2982		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.3	---	---
Nitration	Abs/cm	*ASTM D7624	>20	8.1	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---

## 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.

Sodium	ppm	ASTM D5185m		10	---	---
Boron	ppm	ASTM D5185m		253	---	---
Barium	ppm	ASTM D5185m		4	---	---
Molybdenum	ppm	ASTM D5185m		187	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		34	---	---
Calcium	ppm	ASTM D5185m		2311	---	---
Phosphorus	ppm	ASTM D5185m		716	---	---
Zinc	ppm	ASTM D5185m		849	---	---
Sulfur	ppm	ASTM D5185m		3207	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.1	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	10.2	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0007750 **Received** : 09 May 2024  
**Lab Number** : 06174928 **Tested** : 16 May 2024  
**Unique Number** : 11020981 **Diagnosed** : 16 May 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: FuelDilution, Glycol, PercentFuel, TBN )

**WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE**  
 25135 ONE AVIATION WAY SW  
 MADISON, AL  
 US 35756  
 Contact: BOBBY LUCKY  
 warriorparts033@gmail.com

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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F: