



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area  
**Store 5 - Cross Lanes**  
Machine Id  
**JOHN DEERE 318D 1T0318DALCG235284**  
Component  
**Diesel Engine**  
Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LECP049347	LECP151136	---
Sample Date		Client Info		03 May 2024	16 May 2016	---
Machine Age	hrs	Client Info		250	110	---
Oil Age	hrs	Client Info		140	110	---
Filter Age	hrs	Client Info		140	110	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ATTENTION	ABNORMAL	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>50	15	23	---
Chromium	ppm	ASTM D5185m	>11	<1	0	---
Nickel	ppm	ASTM D5185m	>5	<1	<1	---
Titanium	ppm	ASTM D5185m		2	0	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	6	6	---
Lead	ppm	ASTM D5185m	>26	<1	<1	---
Copper	ppm	ASTM D5185m	>13	7	21	---
Tin	ppm	ASTM D5185m	>4	<1	8	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

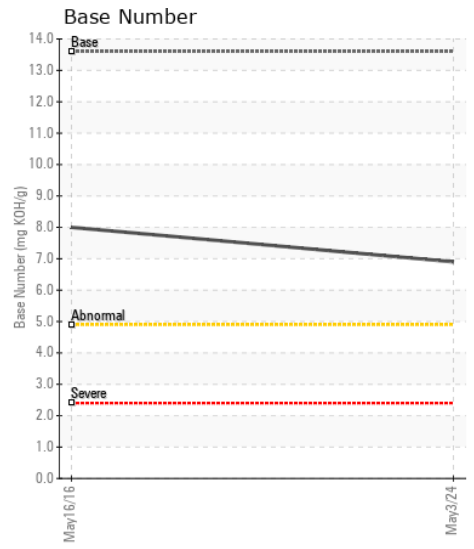
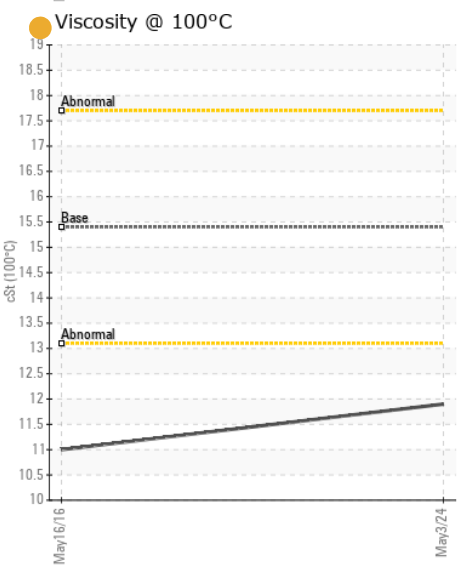
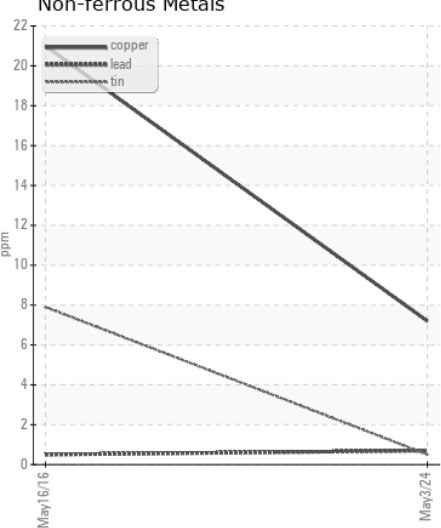
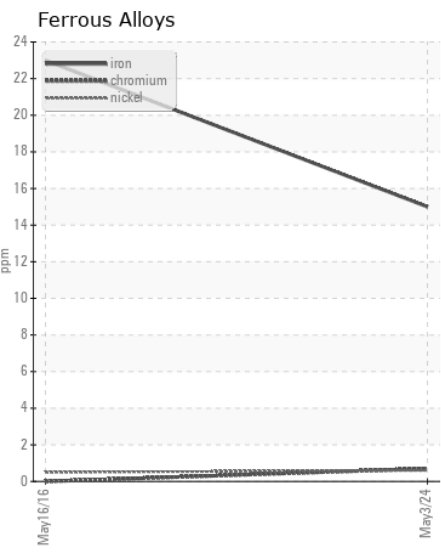
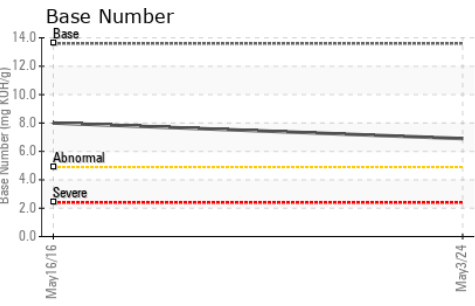
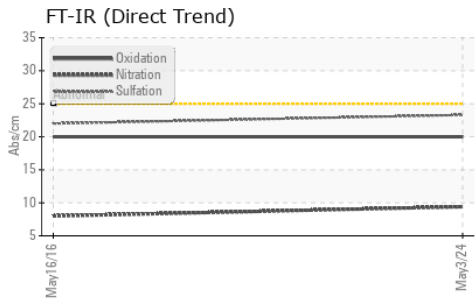
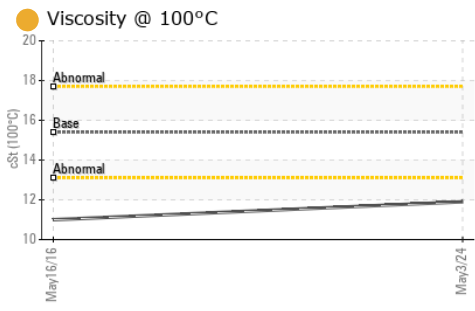
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	15	▲ 47	---
Potassium	ppm	ASTM D5185m	>20	5	16	---
Fuel	%	ASTM D3524	>1.6	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	22.	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	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	>31	5	9	---
Boron	ppm	ASTM D5185m		252	220	---
Barium	ppm	ASTM D5185m		2	16	---
Molybdenum	ppm	ASTM D5185m		216	194	---
Manganese	ppm	ASTM D5185m		2	6	---
Magnesium	ppm	ASTM D5185m		769	689	---
Calcium	ppm	ASTM D5185m		1237	1244	---
Phosphorus	ppm	ASTM D5185m		756	752	---
Zinc	ppm	ASTM D5185m		927	896	---
Sulfur	ppm	ASTM D5185m		3148	2881	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	20.	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.9	8.00	---
Visc @ 100°C	cSt	ASTM D445	15.4	● 11.9	11.00	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049347 **Received** : 23 May 2024  
**Lab Number** : 06188978 **Tested** : 24 May 2024  
**Unique Number** : 11045730 **Diagnosed** : 28 May 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: FuelDilution, TBN )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
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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) F: (740)373-5570