



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Store 8 - Pikeville [133225]**

Machine Id  
**PRINOTH T12 935300138**

Component  
**Diesel Engine**

Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0035840</b>	LEC0032563	LECP193770
Sample Date		Client Info		<b>03 Nov 2022</b>	22 Jul 2022	29 Jan 2019
Machine Age	hrs	Client Info		<b>1294</b>	1181	536
Oil Age	hrs	Client Info		<b>113</b>	645	536
Filter Age	hrs	Client Info		<b>0</b>	645	536
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>25</b>	79	9
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	11	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>330	<b>48</b>	201	17
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

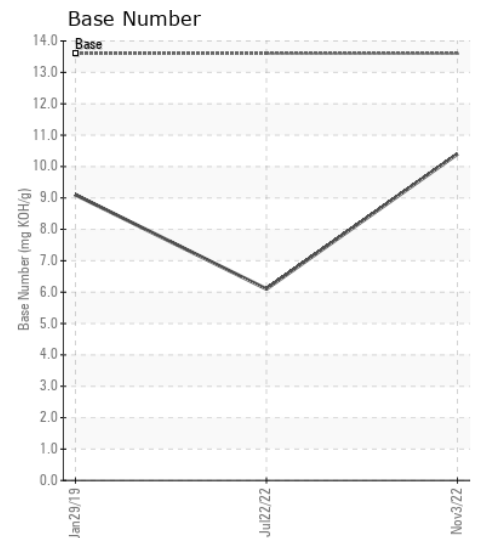
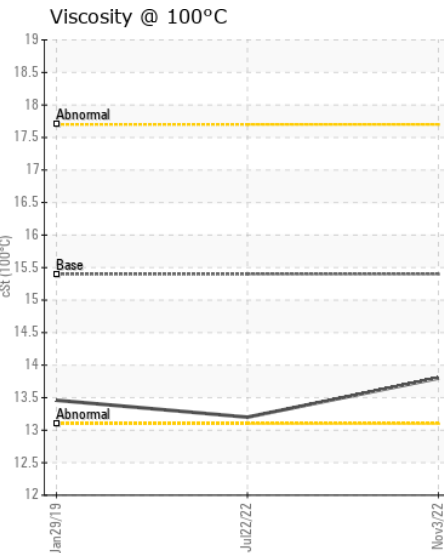
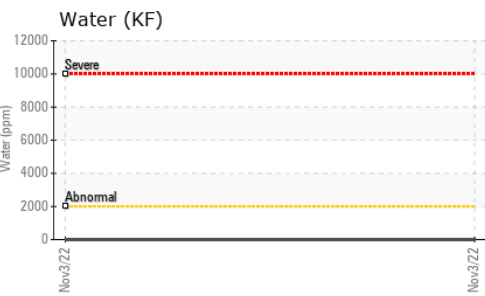
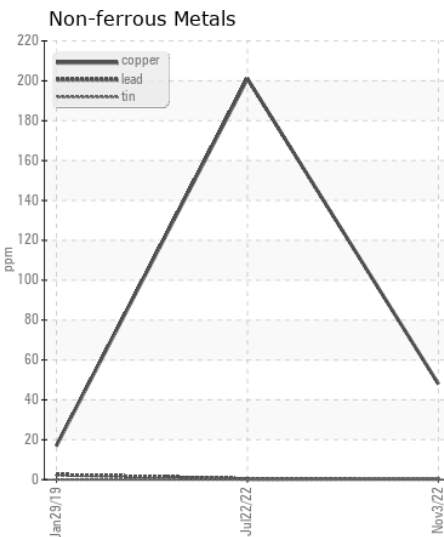
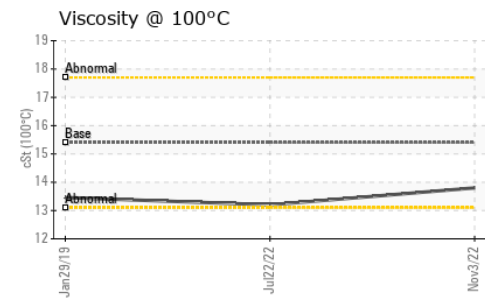
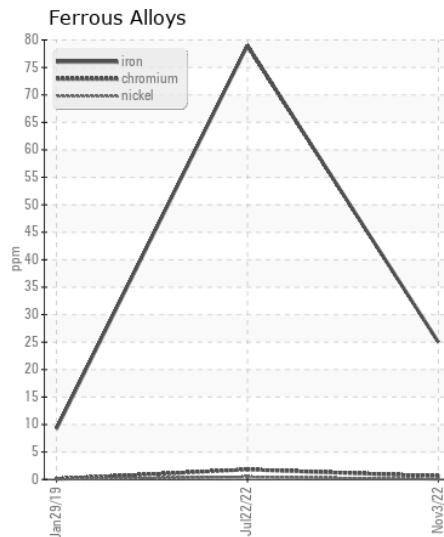
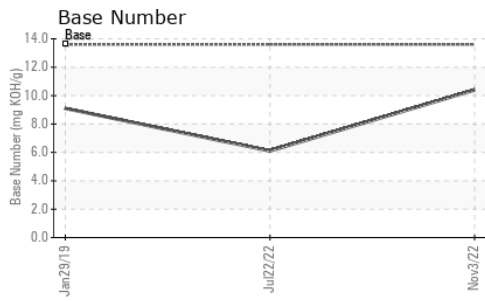
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>7</b>	9	6
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	8	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	%	ASTM D6304	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	10.2	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.7</b>	23.2	23.2
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	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>1</b>	2	3
Boron	ppm	ASTM D5185m		<b>266</b>	85	279
Barium	ppm	ASTM D5185m		<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m		<b>203</b>	8	93
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	3	1
Magnesium	ppm	ASTM D5185m		<b>652</b>	104	557
Calcium	ppm	ASTM D5185m		<b>1540</b>	1990	1568
Phosphorus	ppm	ASTM D5185m		<b>860</b>	855	684
Zinc	ppm	ASTM D5185m		<b>1017</b>	1103	831
Sulfur	ppm	ASTM D5185m		<b>3489</b>	3587	2250
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	18.6	17.9
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>10.4</b>	6.1	9.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	13.2	13.46



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0035840 **Received** : 07 Nov 2022  
**Lab Number** : 05686277 **Diagnosed** : 09 Nov 2022  
**Unique Number** : 10205849 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, 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)

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendallLeanne@lec1.com  
 T:  
 F: (740)373-5570