



# OIL ANALYSIS REPORT

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



Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 750K 1T0750KXVEE257554 (S/N 1T750KXVEE257554)**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0042166</b>	LEC0020789	LECP123159
Sample Date		Client Info		<b>21 Dec 2023</b>	16 Sep 2021	06 Nov 2018
Machine Age	hrs	Client Info		<b>2544</b>	2034	1486
Oil Age	hrs	Client Info		<b>544</b>	534	500
Filter Age	hrs	Client Info		<b>544</b>	534	500
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>31</b>	33	26
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	4	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>31	<b>3</b>	3	6
Lead	ppm	ASTM D5185m	>26	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>26	<b>10</b>	▲ 78	▲ 300
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

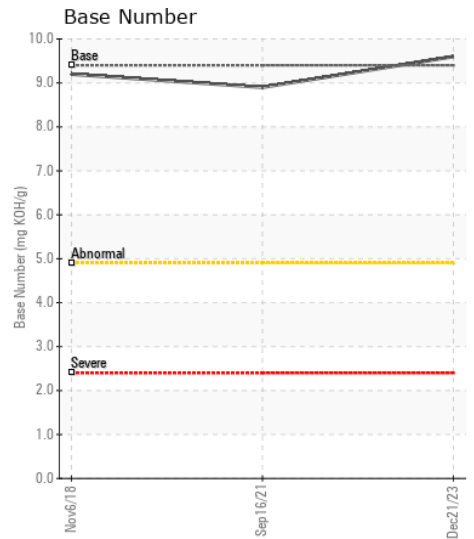
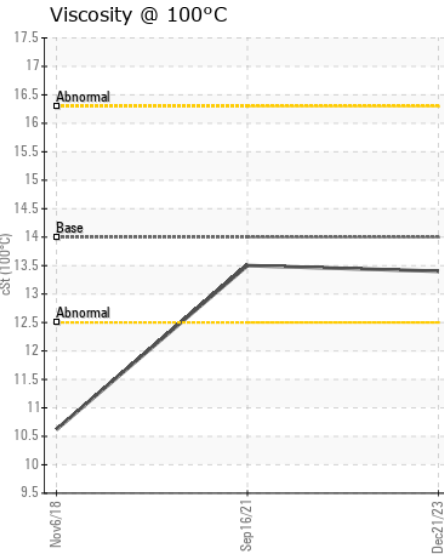
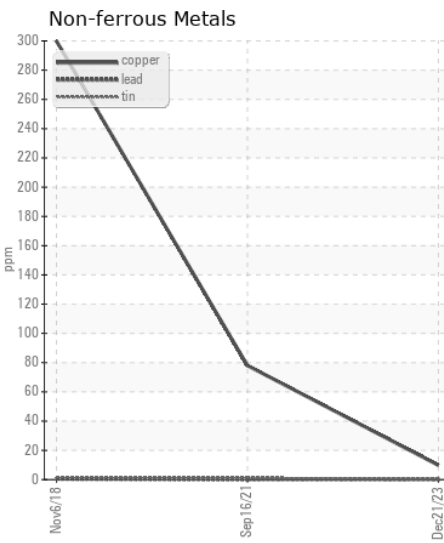
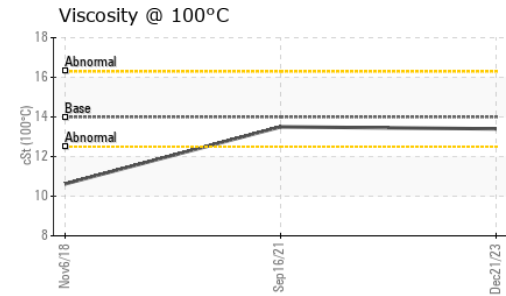
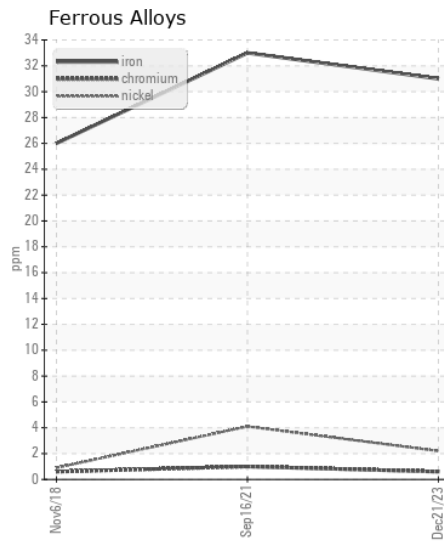
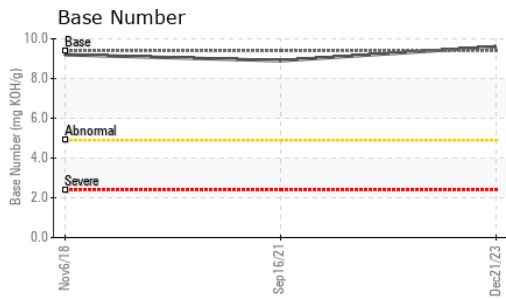
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>6</b>	4	5
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	0.3
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.3</b>	11.1	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.8</b>	23.2	22.6
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	>0.21	<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	>31	<b>4</b>	2	6
Boron	ppm	ASTM D5185m	0	<b>40</b>	40	193
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	0	<b>41</b>	56	258
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	2
Magnesium	ppm	ASTM D5185m	0	<b>504</b>	492	833
Calcium	ppm	ASTM D5185m		<b>1679</b>	1788	1366
Phosphorus	ppm	ASTM D5185m		<b>773</b>	724	843
Zinc	ppm	ASTM D5185m		<b>938</b>	894	963
Sulfur	ppm	ASTM D5185m		<b>2381</b>	1952	2564
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.8</b>	23.5	18.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>9.6</b>	8.9	9.2
Visc @ 100°C	cSt	ASTM D445	14	<b>13.4</b>	13.5	▲ 10.62



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0042166 **Received** : 10 Jan 2024  
**Lab Number** : 06056507 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822456 **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)

**CHISLER INC.**  
 153 BLUE GOOSE RD.  
 FAIRVIEW, WV  
 US 26570  
 Contact: RICHARD SYPOLT  
 richard.sypolt@gmail.com  
 T: (304)798-3202  
 F: (304)798-3206