



# OIL ANALYSIS REPORT

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



Area  
**Contracting**  
Machine Id  
**5536 5536**  
Component  
**Pump Drive**  
Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0902846</b>	WC0819184	WC0740772
Sample Date		Client Info		<b>27 Feb 2024</b>	09 Aug 2023	21 Sep 2022
Machine Age	hrs	Client Info		<b>1208</b>	651	10
Oil Age	hrs	Client Info		<b>1208</b>	651	10
Filter Age	hrs	Client Info		<b>1208</b>	0	10
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	ATTENTION	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>151	<b>62</b>	45	13
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>3</b>	2	1
Lead	ppm	ASTM D5185m	>51	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>51	<b>1</b>	1	<1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

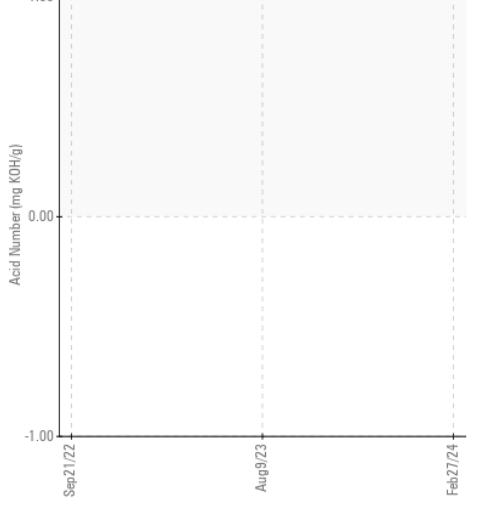
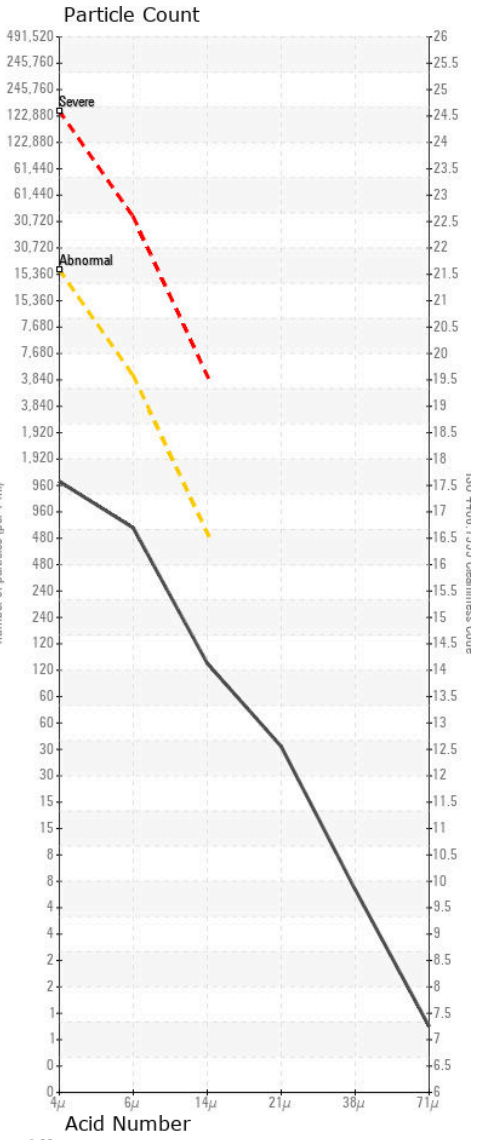
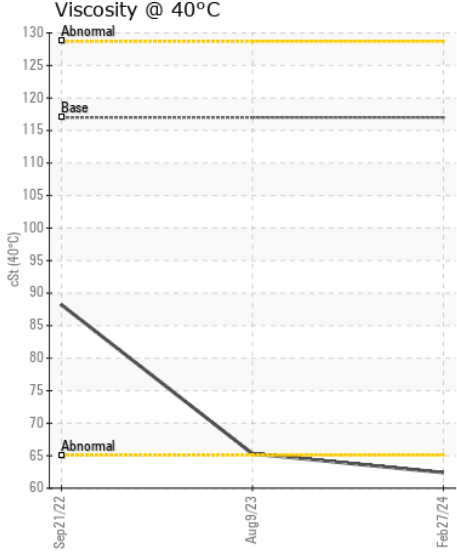
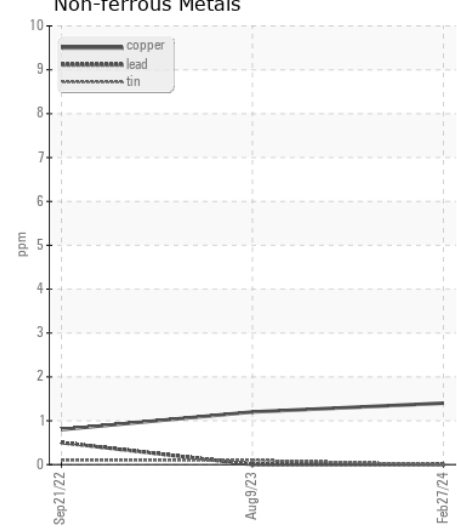
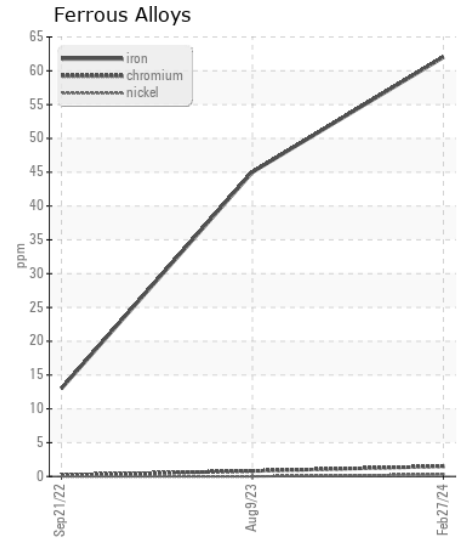
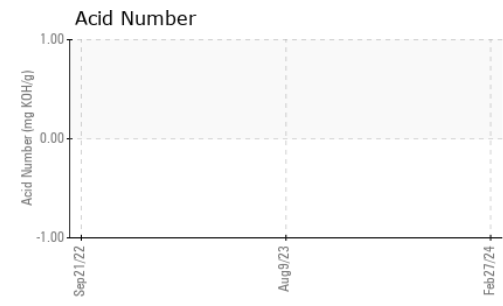
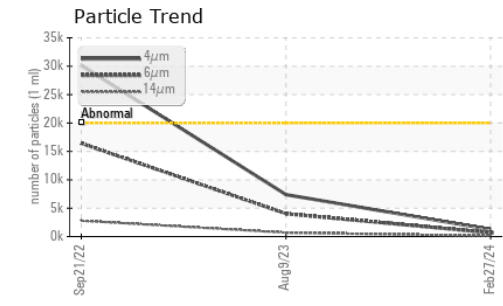
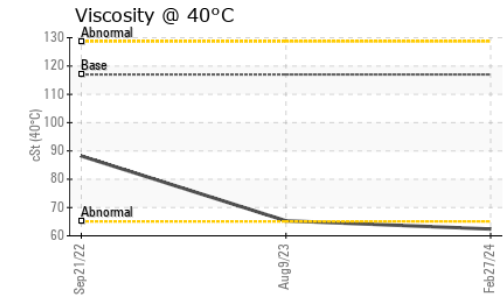
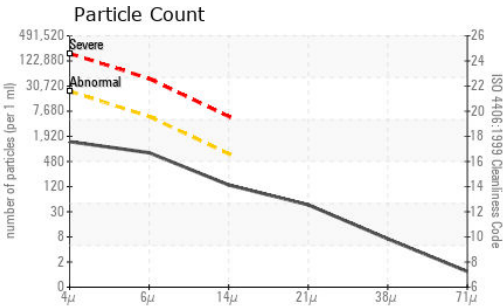
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	<b>16</b>	12	10
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>1253</b>	7386	30127
Particles >6µm		ASTM D7647	>5000	<b>682</b>	4024	16412
Particles >14µm		ASTM D7647	>640	<b>116</b>	685	2793
Particles >21µm		ASTM D7647	>160	<b>39</b>	231	941
Particles >38µm		ASTM D7647	>40	<b>6</b>	36	145
Particles >71µm		ASTM D7647	>10	<b>1</b>	4	15
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>17/17/14</b>	20/19/17	22/21/19
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	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>7</b>	5	3
Boron	ppm	ASTM D5185m		<b>73</b>	64	58
Barium	ppm	ASTM D5185m		<b>8</b>	0	6
Molybdenum	ppm	ASTM D5185m		<b>146</b>	102	98
Manganese	ppm	ASTM D5185m		<b>4</b>	3	2
Magnesium	ppm	ASTM D5185m		<b>22</b>	18	18
Calcium	ppm	ASTM D5185m		<b>5405</b>	4005	3976
Phosphorus	ppm	ASTM D5185m		<b>1602</b>	1119	1086
Zinc	ppm	ASTM D5185m		<b>1891</b>	1292	1300
Sulfur	ppm	ASTM D5185m		<b>12736</b>	9556	9458
Visc @ 40°C	cSt	ASTM D445	117	<b>62.4</b>	65.3	88.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0902846 **Received** : 29 Feb 2024  
**Lab Number** : 06104222 **Tested** : 05 Mar 2024  
**Unique Number** : 10902452 **Diagnosed** : 05 Mar 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PrtCount )

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Certificate L2367  
 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)