



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

Machine Id  
**JOHN DEERE 844P 1DW844PAVPLX07617**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0221952</b>	JR0209542	JR0197661
Sample Date		Client Info		<b>01 Jul 2024</b>	04 Apr 2024	09 Jan 2024
Machine Age	hrs	Client Info		<b>983</b>	499	32
Oil Age	hrs	Client Info		<b>484</b>	497	1
Filter Age	hrs	Client Info		<b>0</b>	0	3
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>25</b>	30	1
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	3	2
Lead	ppm	ASTM D5185m	>26	<b>12</b>	14	0
Copper	ppm	ASTM D5185m	>26	<b>▲ 134</b>	▲ 459	<1
Tin	ppm	ASTM D5185m	>4	<b>5</b>	5	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

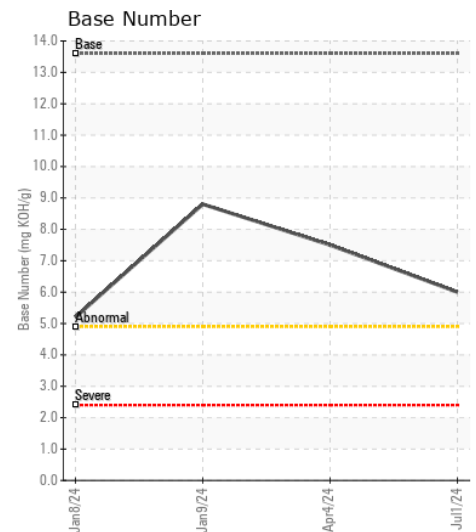
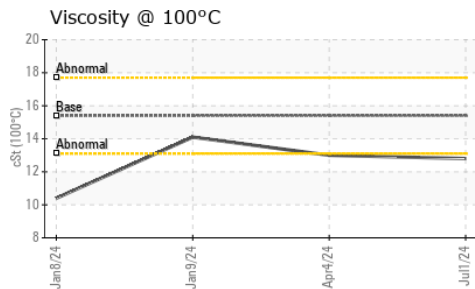
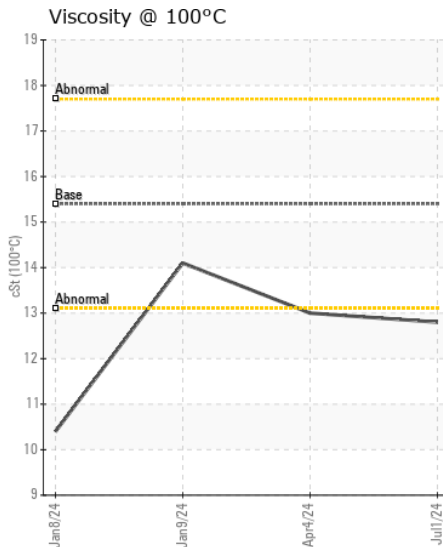
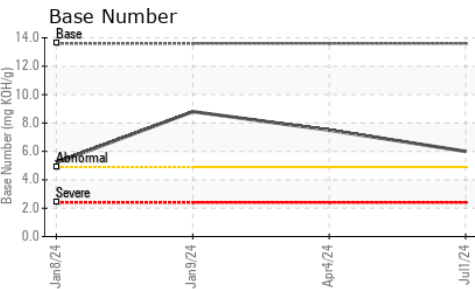
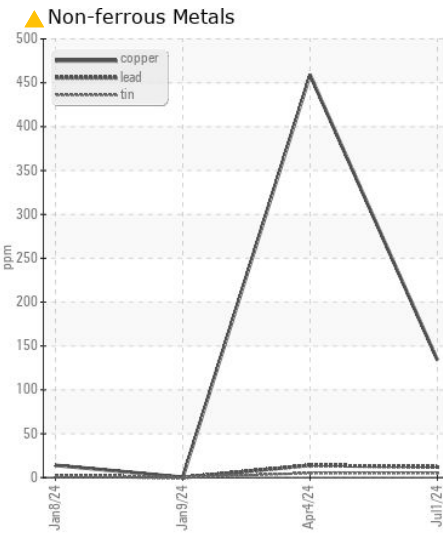
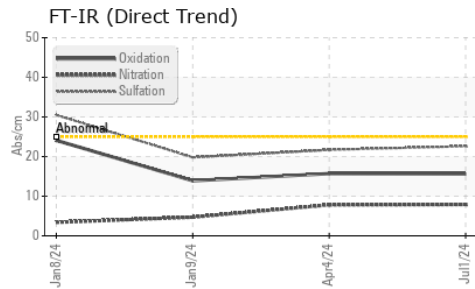
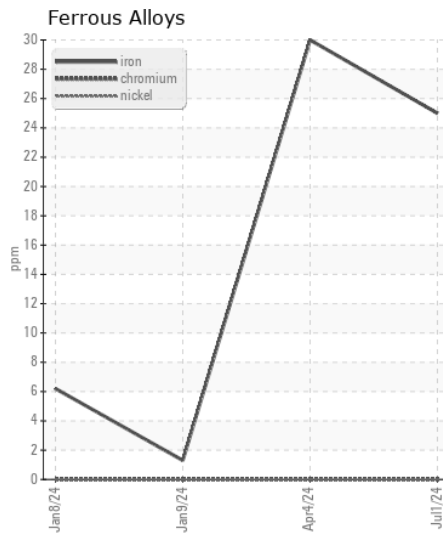
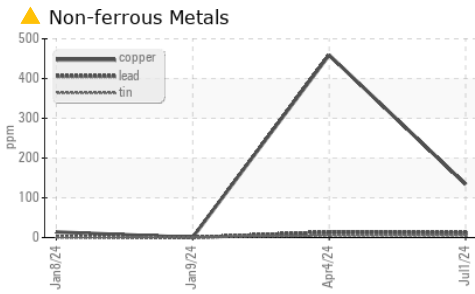
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>5</b>	6	6
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	2
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
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>	0.3	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.9</b>	7.8	4.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.6</b>	21.7	19.8
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>	3	<1
Boron	ppm	ASTM D5185m		<b>248</b>	269	339
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>98</b>	167	159
Manganese	ppm	ASTM D5185m		<b>1</b>	2	<1
Magnesium	ppm	ASTM D5185m		<b>429</b>	605	575
Calcium	ppm	ASTM D5185m		<b>1424</b>	1496	1289
Phosphorus	ppm	ASTM D5185m		<b>1029</b>	1042	959
Zinc	ppm	ASTM D5185m		<b>1263</b>	1199	1146
Sulfur	ppm	ASTM D5185m		<b>3531</b>	3866	3120
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.6</b>	15.7	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>6.0</b>	7.5	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.8</b>	13.0	14.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0221952

Lab Number : 06228253

Unique Number : 11111746

Test Package : CONST ( Additional Tests: TBN )

Received : 05 Jul 2024

Tested : 05 Jul 2024

Diagnosed : 08 Jul 2024 - Don Baldrige

JRE - GARNER

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RALEIGH SHOP

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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)