



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



Area  
**[W52450]**  
 Machine Id  
**JOHN DEERE 700K 1T0700KXPEE270345**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

### RECOMMENDATION

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0212056</b>	JR0211540	JR0190260
Sample Date		Client Info		<b>20 Jun 2024</b>	09 May 2024	26 Oct 2023
Machine Age	hrs	Client Info		<b>7152</b>	6989	6438
Oil Age	hrs	Client Info		<b>163</b>	0	5110
Filter Age	hrs	Client Info		<b>163</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	N/A
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	N/A
Sample Status				<b>SEVERE</b>	NORMAL	ABNORMAL

### WEAR

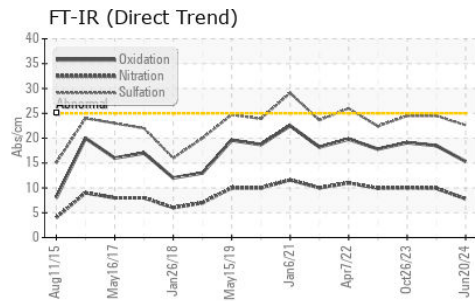
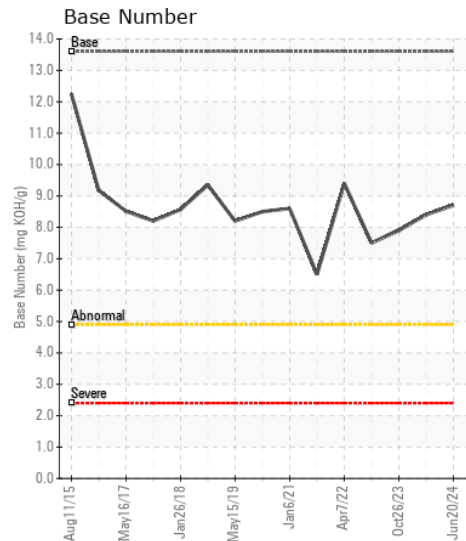
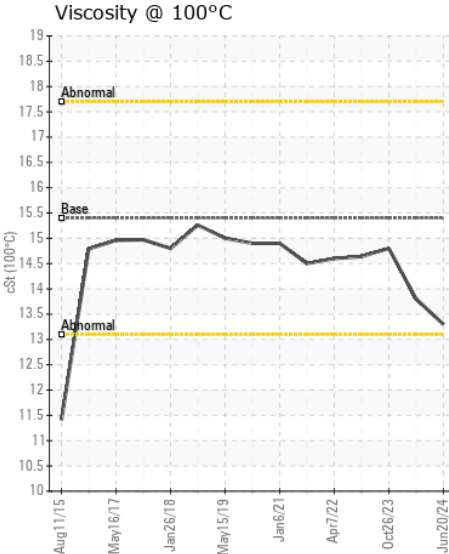
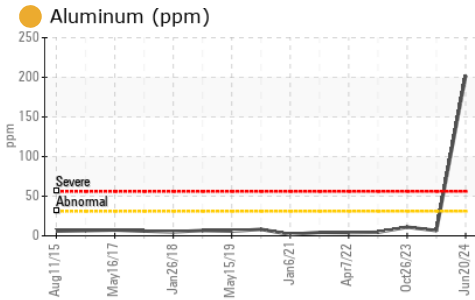
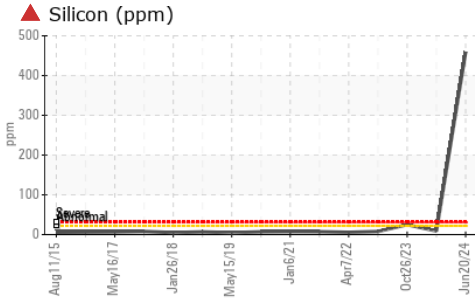
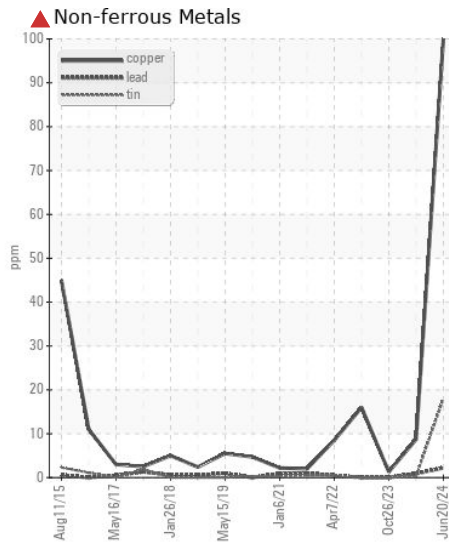
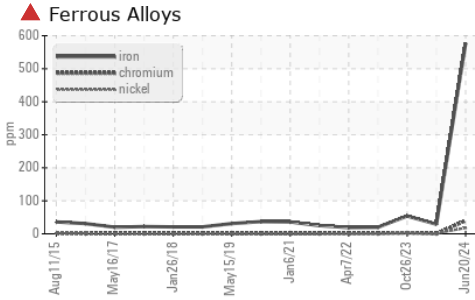
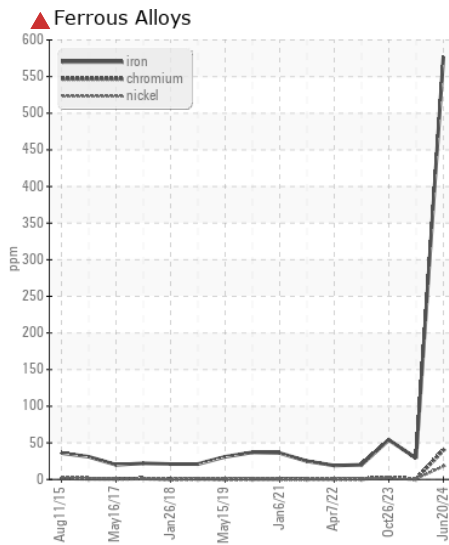
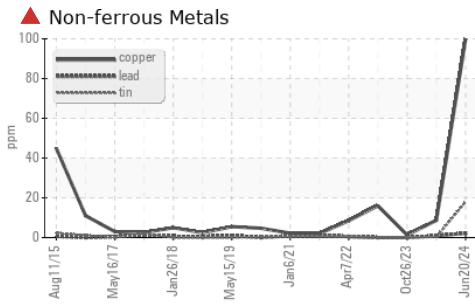
Iron	ppm	ASTM D5185m	>51	<b>▲ 577</b>	29	▲ 54
Chromium	ppm	ASTM D5185m	>11	<b>▲ 40</b>	<1	3
Nickel	ppm	ASTM D5185m	>5	<b>▲ 18</b>	1	2
Titanium	ppm	ASTM D5185m		<b>9</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>● 202</b>	7	● 11
Lead	ppm	ASTM D5185m	>26	<b>2</b>	<1	0
Copper	ppm	ASTM D5185m	>26	<b>▲ 100</b>	9	1
Tin	ppm	ASTM D5185m	>4	<b>▲ 18</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

Silicon	ppm	ASTM D5185m	>22	<b>▲ 459</b>	9	▲ 25
Potassium	ppm	ASTM D5185m	>20	<b>23</b>	2	<1
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>0.4</b>	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.8</b>	9.9	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.6</b>	24.5	24.5
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

Sodium	ppm	ASTM D5185m	>31	<b>4</b>	4	5
Boron	ppm	ASTM D5185m		<b>230</b>	179	166
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	4
Molybdenum	ppm	ASTM D5185m		<b>217</b>	226	258
Manganese	ppm	ASTM D5185m		<b>9</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>685</b>	784	772
Calcium	ppm	ASTM D5185m		<b>1523</b>	1703	1276
Phosphorus	ppm	ASTM D5185m		<b>924</b>	948	910
Zinc	ppm	ASTM D5185m		<b>1109</b>	1131	1003
Sulfur	ppm	ASTM D5185m		<b>3015</b>	3486	2598
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.3</b>	18.5	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.7</b>	8.4	7.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	13.8	14.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0212056 **Received** : 21 Jun 2024  
**Lab Number** : 06216563 **Tested** : 24 Jun 2024  
**Unique Number** : 11089427 **Diagnosed** : 24 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - ASHLAND**  
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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)