



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



Machine Id  
**JOHN DEERE 750J 17075CJXABD212960**

Component  
**Hydraulic System**

Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 GAL)**

### RECOMMENDATION

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>JR0214835</b>	JR06196591	JRMC358573
Sample Date		Client Info		<b>30 May 2024</b>	24 May 2024	07 Dec 2012
Machine Age	hrs	Client Info		<b>4897</b>	4880	108
Oil Age	hrs	Client Info		<b>0</b>	0	108
Filter Age	hrs	Client Info		<b>0</b>	0	108
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Not Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR

The iron level is abnormal. The chromium level is abnormal.

PQ		ASTM D8184	>50	<b>34</b>	33	6.0
Iron	ppm	ASTM D5185m	>23	<b>▲ 34</b>	▲ 33	2
Chromium	ppm	ASTM D5185m	>9	<b>▲ 10</b>	▲ 10	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</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	>9	<b>8</b>	8	1
Lead	ppm	ASTM D5185m	>28	<b>2</b>	2	0
Copper	ppm	ASTM D5185m	>51	<b>33</b>	33	<1
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

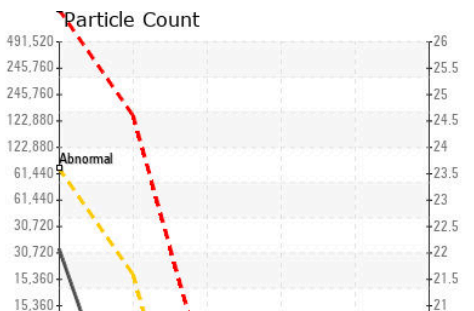
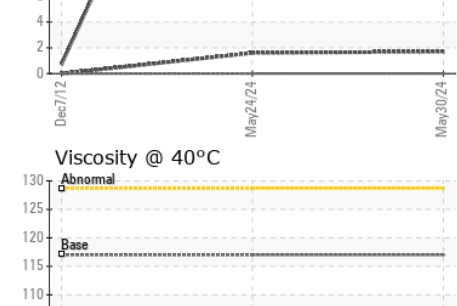
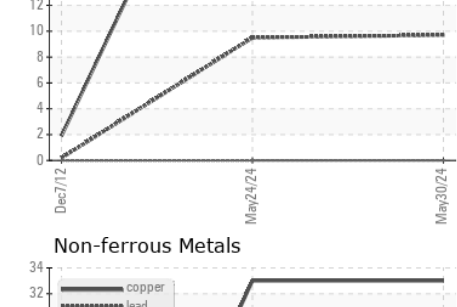
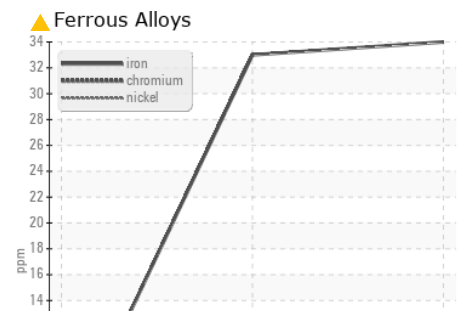
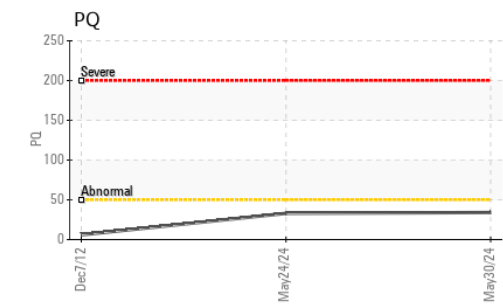
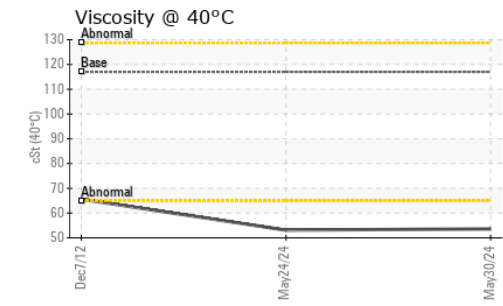
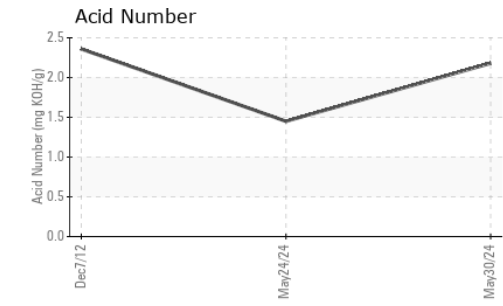
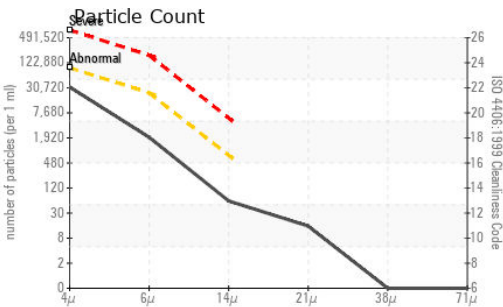
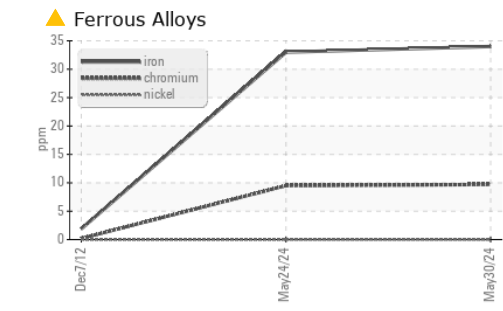
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	<b>20</b>	20	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>27841</b>	29143	428
Particles >6µm		ASTM D7647	>20000	<b>1739</b>	1182	233
Particles >14µm		ASTM D7647	>640	<b>52</b>	17	39
Particles >21µm		ASTM D7647	>160	<b>13</b>	3	13
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	2
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>22/18/13</b>	22/17/11	16/15/12
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	>0.075	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>3</b>	3	2
Boron	ppm	ASTM D5185m		<b>24</b>	21	32
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>20</b>	18	27
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>256</b>	244	342
Calcium	ppm	ASTM D5185m		<b>2615</b>	2578	2157
Phosphorus	ppm	ASTM D5185m		<b>997</b>	979	1118
Zinc	ppm	ASTM D5185m		<b>1200</b>	1174	1193
Sulfur	ppm	ASTM D5185m		<b>3822</b>	3756	3385
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>2.18</b>	1.45	2.36
Visc @ 40°C	cSt	ASTM D445	117	<b>53.6</b>	53.1	65.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0214835 **Received** : 31 May 2024  
**Lab Number** : 06196573 **Tested** : 03 Jun 2024  
**Unique Number** : 11058696 **Diagnosed** : 03 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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)