



Area  
**[16W15395]**  
 Machine Id  
**JOHN DEERE 750K 1T0750KXJHF306604**  
 Component  
**Right Outer Final Drive**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (4 GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. ( Customer Sample Comment: 16W15395 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196365	JR0136138	JR0007182
Sample Date		Client Info		07 Feb 2024	28 Sep 2022	08 May 2019
Machine Age	hrs	Client Info		4316	3745	1891
Oil Age	hrs	Client Info		571	1854	780
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	483	133	41
Iron	ppm	ASTM D5185m	>750	607	353	50
Chromium	ppm	ASTM D5185m	>9	6	7	2
Nickel	ppm	ASTM D5185m	>10	5	1	<1
Titanium	ppm	ASTM D5185m		2	1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>40	▲ 24	▲ 13	<1
Lead	ppm	ASTM D5185m	>15	1	0	0
Copper	ppm	ASTM D5185m	>40	1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

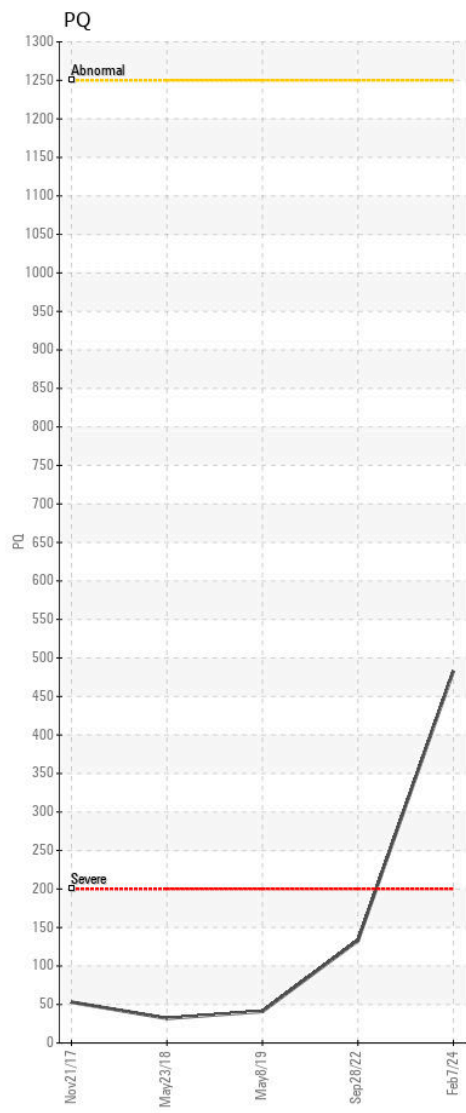
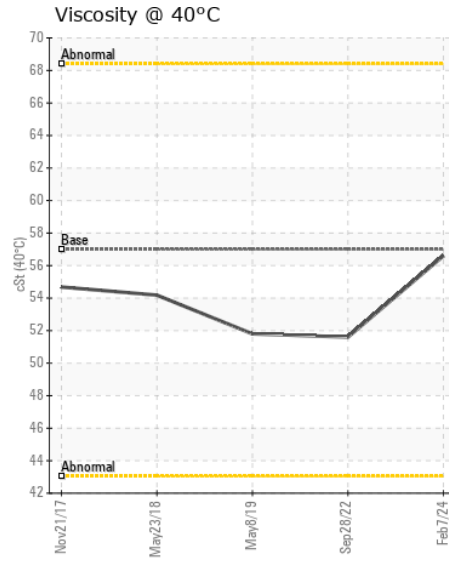
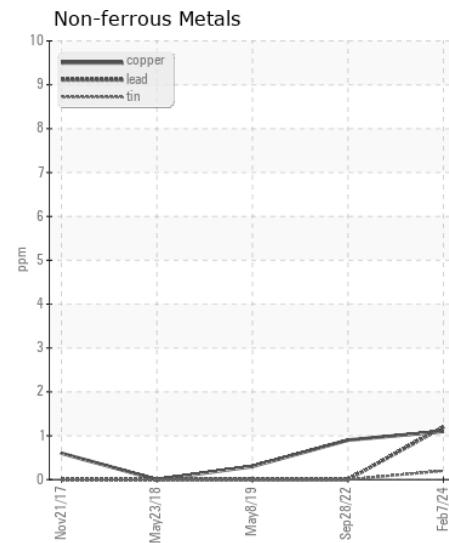
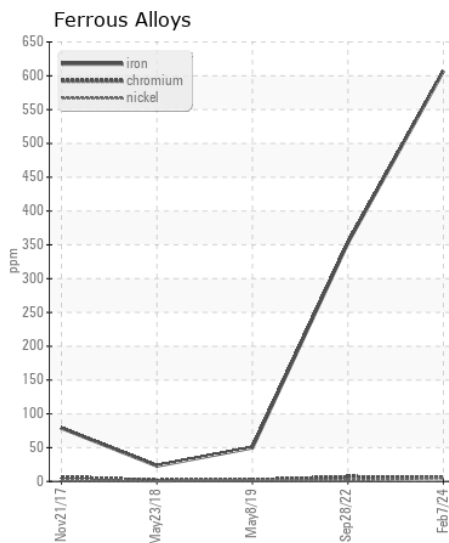
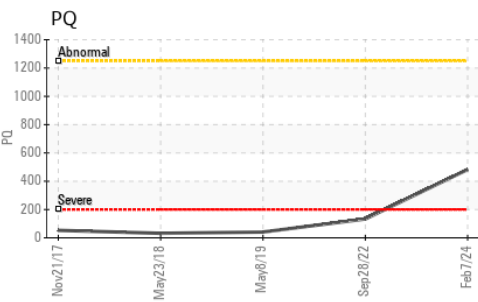
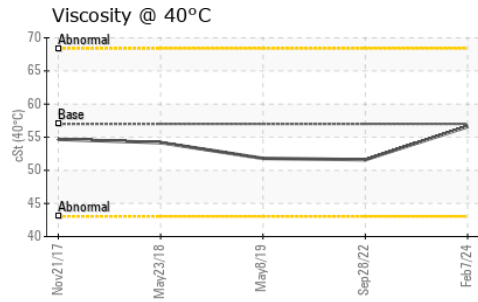
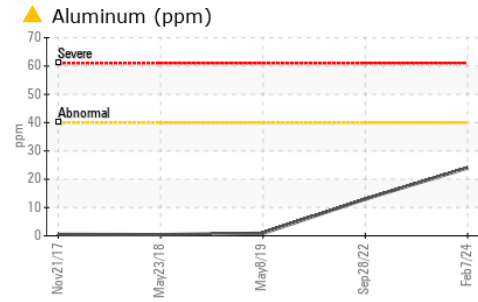
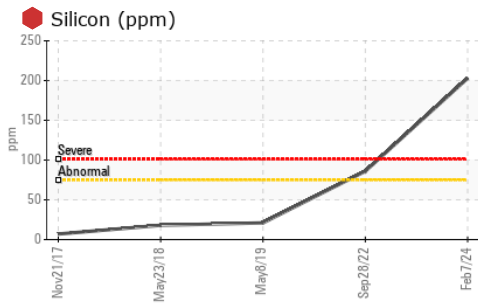
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	● 203	▲ 86	21
Potassium	ppm	ASTM D5185m	>20	7	5	13
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	4	<1	4
Boron	ppm	ASTM D5185m	6	<1	7	3
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	0	0	3	0
Manganese	ppm	ASTM D5185m		5	4	<1
Magnesium	ppm	ASTM D5185m	145	92	102	93
Calcium	ppm	ASTM D5185m	3570	3212	3675	3237
Phosphorus	ppm	ASTM D5185m	1290	939	1099	905
Zinc	ppm	ASTM D5185m	1640	1142	1340	1138
Sulfur	ppm	ASTM D5185m		3207	4486	3096
Visc @ 40°C	cSt	ASTM D445	57.0	56.6	51.6	51.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0196365 **Received** : 09 Feb 2024  
**Lab Number** : 06085018 **Tested** : 11 Feb 2024  
**Unique Number** : 10872463 **Diagnosed** : 12 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
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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)