



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

Machine Id  
**JOHN DEERE 298589**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

### RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

### WEAR

All component wear rates are normal.

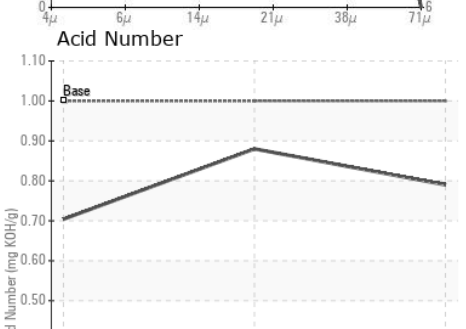
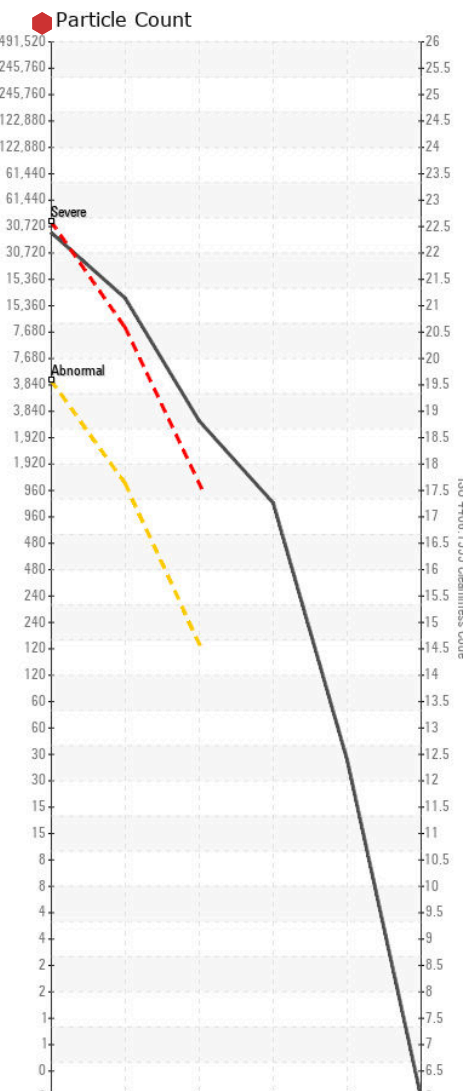
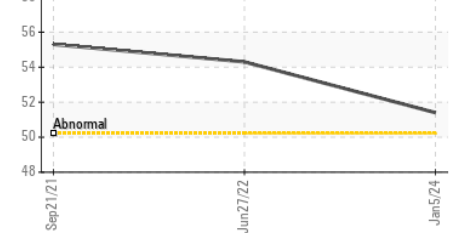
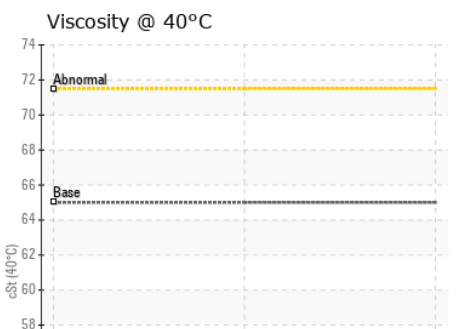
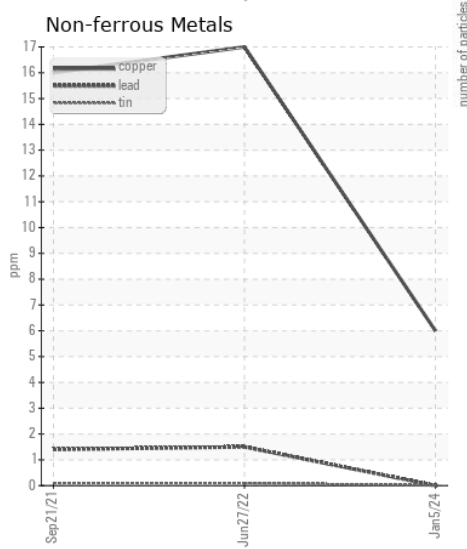
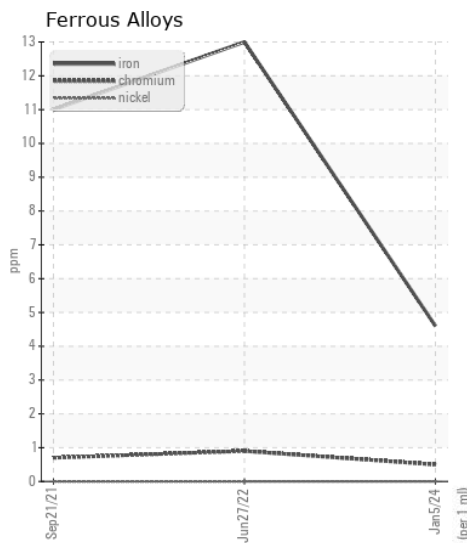
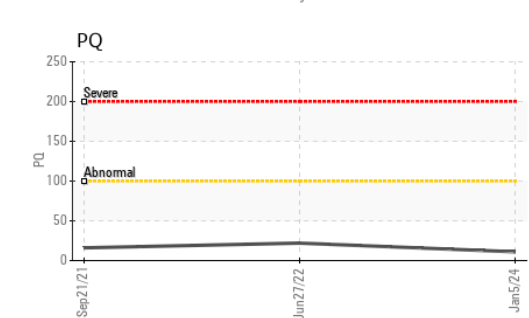
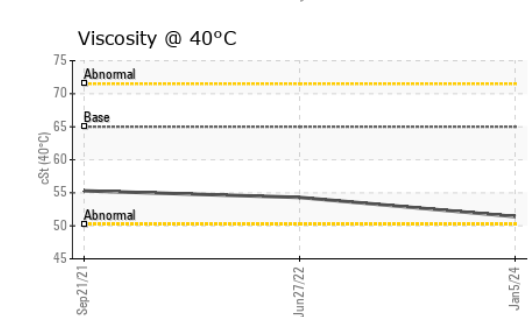
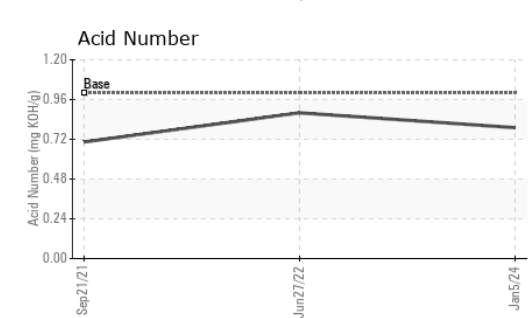
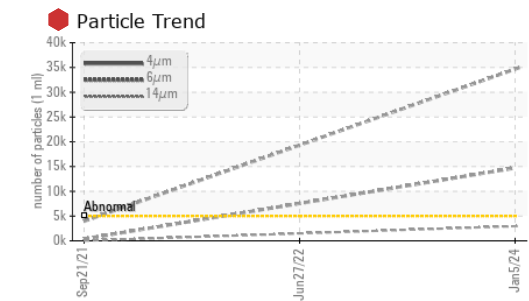
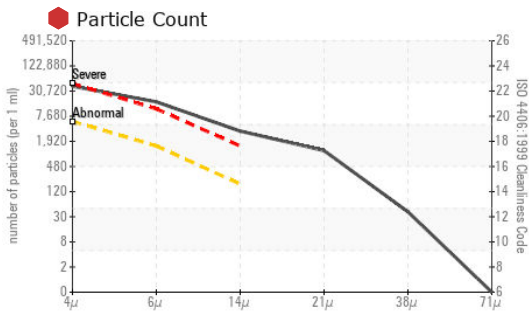
### CONTAMINATION

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

### FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0199196</b>	JR0132866	JR0101576
Sample Date		Client Info		<b>05 Jan 2024</b>	27 Jun 2022	21 Sep 2021
Machine Age	hrs	Client Info		<b>5951</b>	4398	3777
Oil Age	hrs	Client Info		<b>1553</b>	4398	3777
Filter Age	hrs	Client Info		<b>1553</b>	0	361
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status				<b>SEVERE</b>	ABNORMAL	NORMAL
PQ		ASTM D8184		<b>11</b>	22	16
Iron	ppm	ASTM D5185m	>20	<b>5</b>	13	11
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	3	6
Lead	ppm	ASTM D5185m	>10	<b>0</b>	2	1
Copper	ppm	ASTM D5185m	>75	<b>6</b>	17	16
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	<b>4</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>34677</b>	---	3965
Particles >6µm		ASTM D7647	>1300	<b>14714</b>	---	379
Particles >14µm		ASTM D7647	>160	<b>2949</b>	---	25
Particles >21µm		ASTM D7647	>40	<b>1010</b>	---	8
Particles >38µm		ASTM D7647	>10	<b>35</b>	---	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>22/21/19</b>	---	19/16/12
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	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
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Boron	ppm	ASTM D5185m		<b>0</b>	16	17
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	9	9
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>4</b>	29	31
Calcium	ppm	ASTM D5185m	87	<b>598</b>	149	160
Phosphorus	ppm	ASTM D5185m	727	<b>780</b>	646	679
Zinc	ppm	ASTM D5185m	900	<b>815</b>	833	848
Sulfur	ppm	ASTM D5185m	1500	<b>1800</b>	1879	1613
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.79</b>	0.88	0.704
Visc @ 40°C	cSt	ASTM D445	65	<b>51.4</b>	54.3	55.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0199196 **Received** : 09 Jan 2024  
**Lab Number** : 06055857 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821806 **Diagnostician** : Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - MANASSAS PARK**  
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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)