



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



Machine Id  
**2016**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0195390</b>	JR0169541	JR0159453
Sample Date		Client Info		<b>20 Feb 2024</b>	06 Jul 2023	18 Apr 2023
Machine Age	hrs	Client Info		<b>4163</b>	2987	2513
Oil Age	hrs	Client Info		<b>4000</b>	1000	500
Filter Age	hrs	Client Info		<b>4000</b>	1000	500
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>10</b>	13	12
Iron	ppm	ASTM D5185m	>71	<b>7</b>	4	3
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m	>13	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>21	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
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

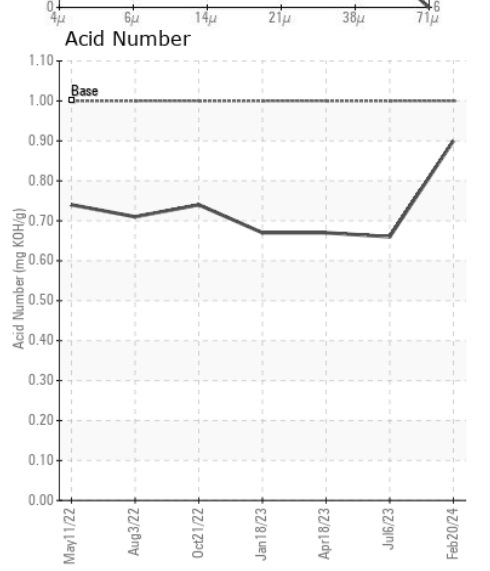
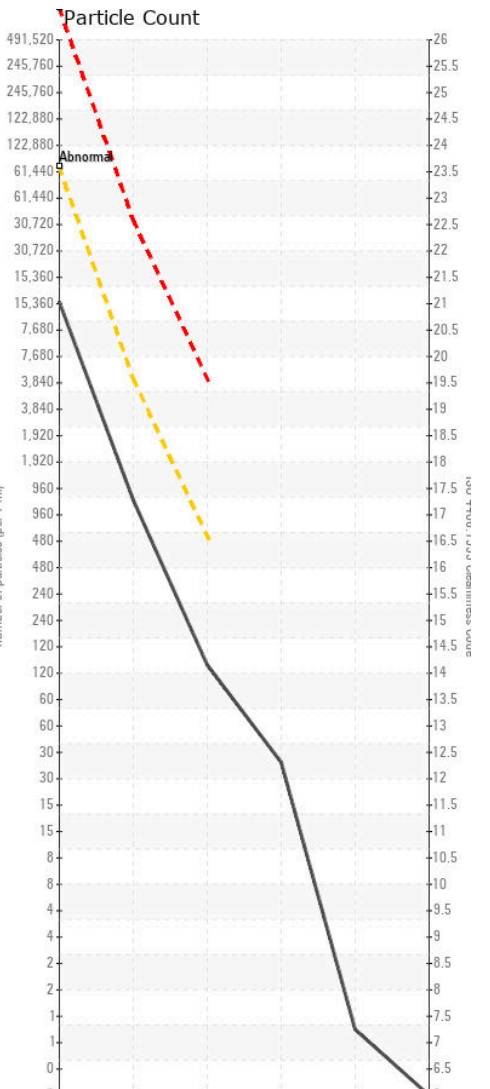
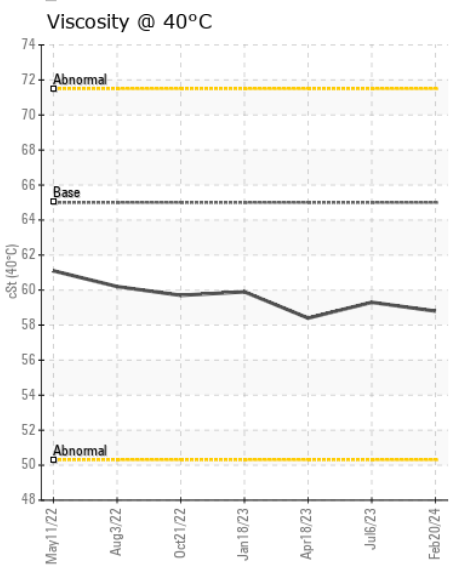
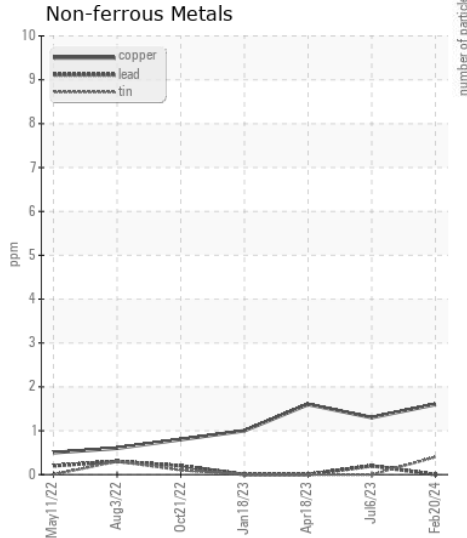
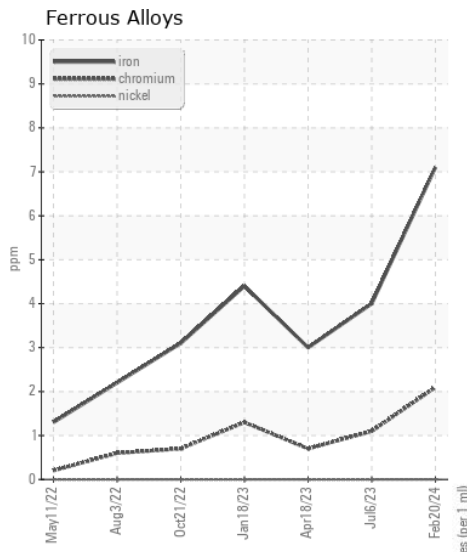
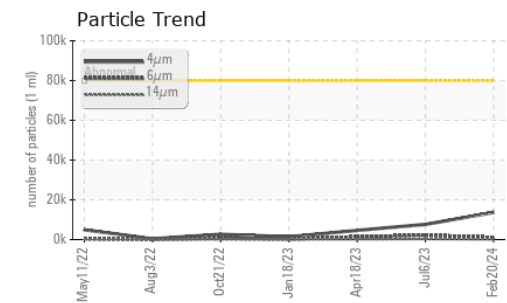
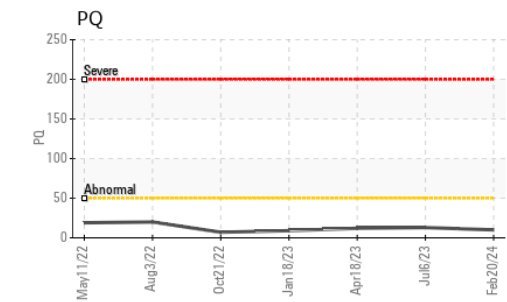
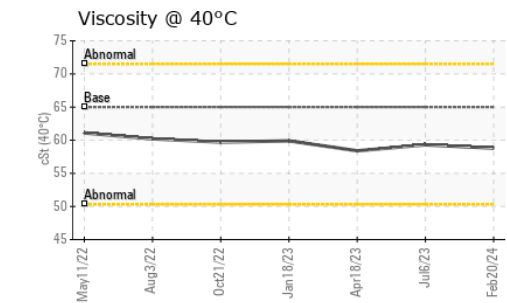
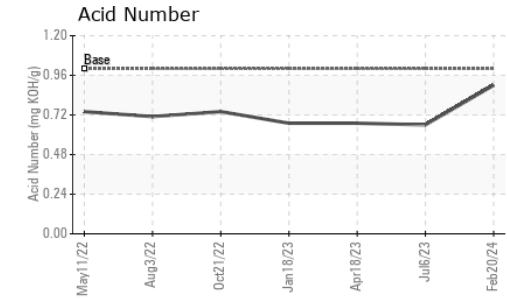
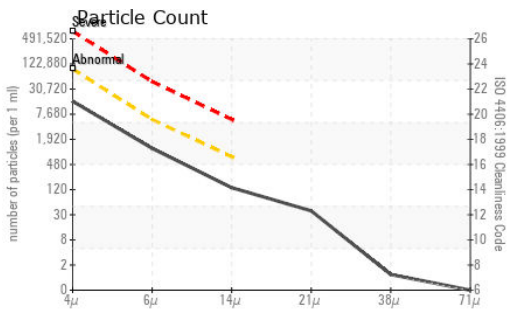
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>24	<b>2</b>	1	<1
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	0
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>13655</b>	7634	4626
Particles >6µm		ASTM D7647	>5000	<b>1022</b>	2153	1303
Particles >14µm		ASTM D7647	>640	<b>118</b>	259	92
Particles >21µm		ASTM D7647	>160	<b>33</b>	86	19
Particles >38µm		ASTM D7647	>40	<b>1</b>	6	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>21/17/14</b>	20/18/15	19/18/14
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>2</b>	0	1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>4</b>	2	0
Calcium	ppm	ASTM D5185m	87	<b>94</b>	96	164
Phosphorus	ppm	ASTM D5185m	727	<b>619</b>	602	597
Zinc	ppm	ASTM D5185m	900	<b>847</b>	826	809
Sulfur	ppm	ASTM D5185m	1500	<b>1962</b>	1908	1569
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.90</b>	0.66	0.67
Visc @ 40°C	cSt	ASTM D445	65	<b>58.8</b>	59.3	58.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0195390 **Received** : 20 Mar 2024  
**Lab Number** : 06123543 **Tested** : 24 Mar 2024  
**Unique Number** : 10937694 **Diagnosed** : 24 Mar 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**PATRIOT DEVELOPMENT CORP**  
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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)