



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

Area  
**[05W45053]**  
 Machine Id  
**JOHN DEERE 410L 1T0410LXLMF398469**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (10 GAL)**

### RECOMMENDATION

Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0190156</b>	JR0166272	JR0107335
Sample Date		Client Info		<b>20 Feb 2024</b>	24 Mar 2023	21 Feb 2022
Machine Age	hrs	Client Info		<b>1449</b>	944	468
Oil Age	hrs	Client Info		<b>1449</b>	944	468
Filter Age	hrs	Client Info		<b>505</b>	944	468
Oil Changed		Client Info		<b>Not Chngd</b>	Oil Added	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status				<b>SEVERE</b>	ATTENTION	ATTENTION

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>&lt;1</b>	4	2
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	7	3
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>11</b>	1	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
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

### CONTAMINATION

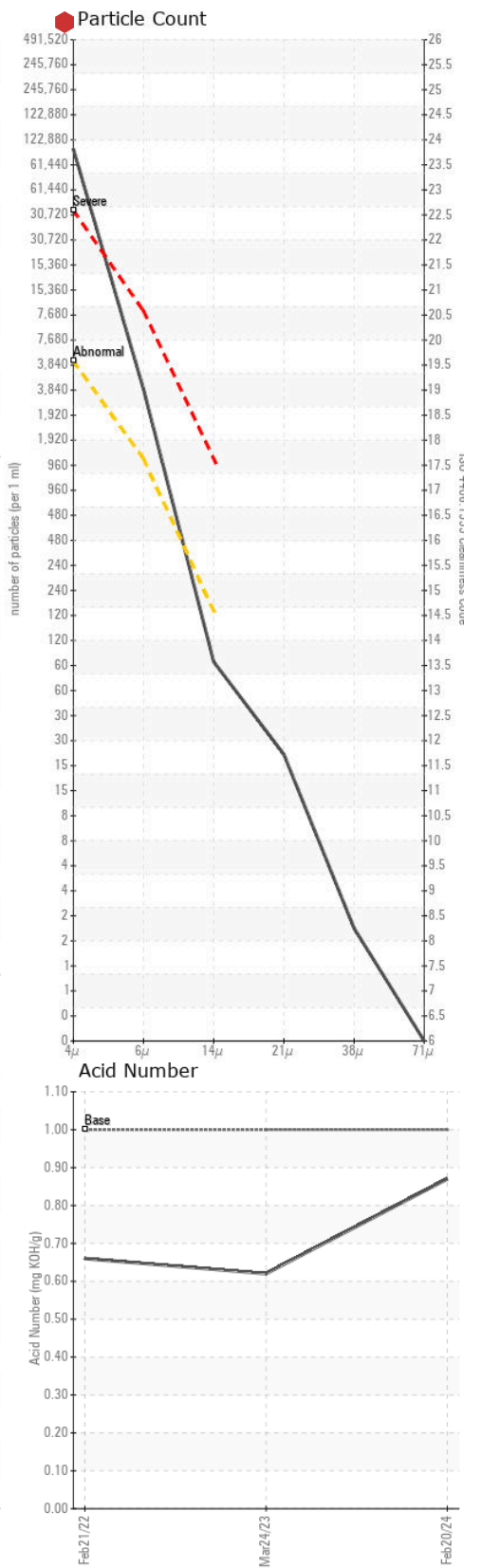
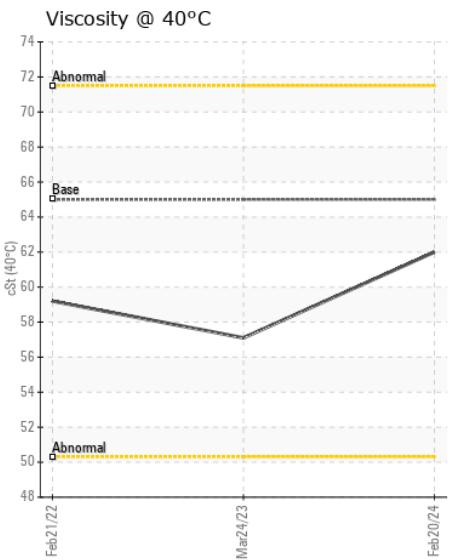
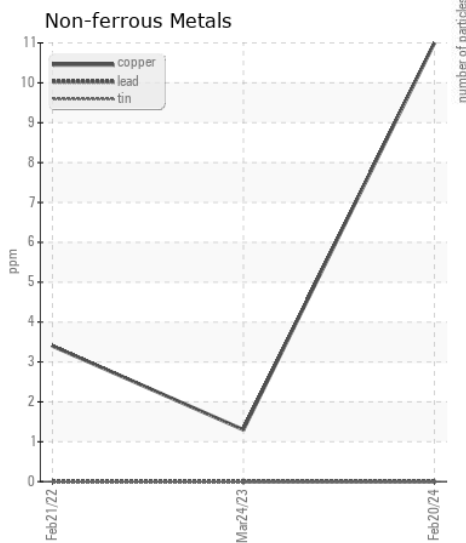
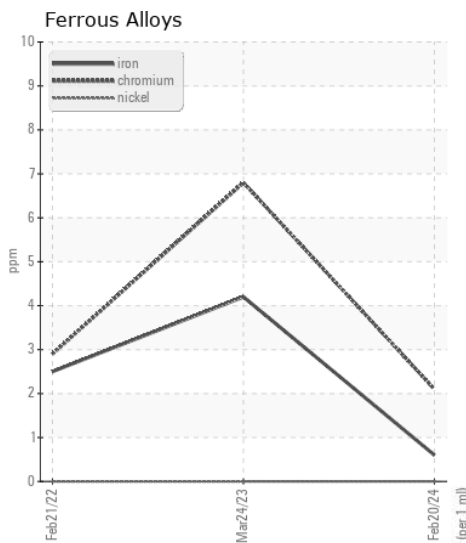
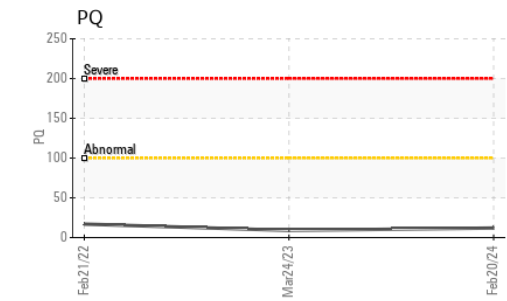
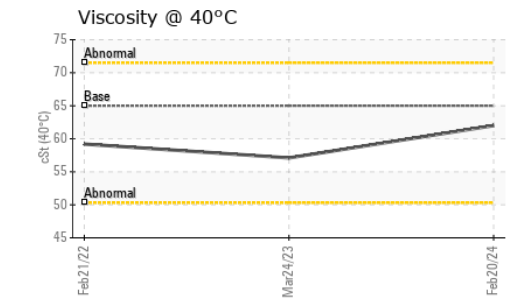
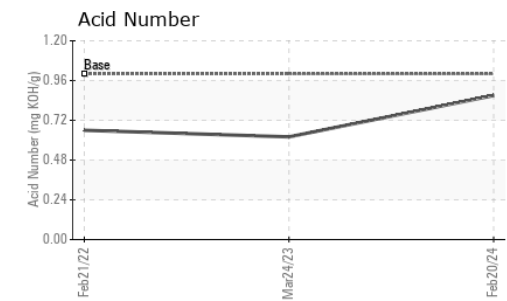
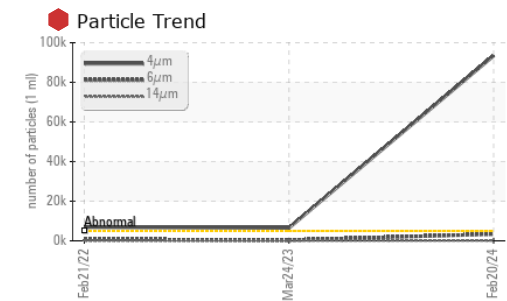
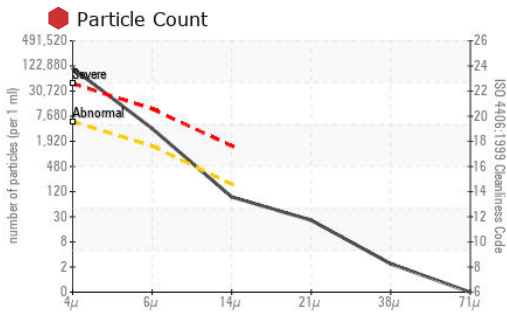
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	10	7
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>93411</b>	6524	6881
Particles >6µm		ASTM D7647	>1300	<b>3397</b>	357	749
Particles >14µm		ASTM D7647	>160	<b>79</b>	9	30
Particles >21µm		ASTM D7647	>40	<b>22</b>	2	4
Particles >38µm		ASTM D7647	>10	<b>2</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>24/19/13</b>	20/16/10	20/17/12
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	>0.1	<b>NEG</b>	NEG	NEG

### 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.

Sodium	ppm	ASTM D5185m		<b>2</b>	2	<1
Boron	ppm	ASTM D5185m		<b>0</b>	0	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Calcium	ppm	ASTM D5185m	87	<b>70</b>	84	104
Phosphorus	ppm	ASTM D5185m	727	<b>425</b>	593	644
Zinc	ppm	ASTM D5185m	900	<b>658</b>	815	868
Sulfur	ppm	ASTM D5185m	1500	<b>1427</b>	1848	1487
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.87</b>	0.62	0.66
Visc @ 40°C	cSt	ASTM D445	65	<b>62.0</b>	57.1	59.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0190156 **Received** : 22 Feb 2024  
**Lab Number** : 06097610 **Tested** : 23 Feb 2024  
**Unique Number** : 10890463 **Diagnosed** : 23 Feb 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

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)

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