



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 948L 1DW948LBAJF692523**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HYDRAU (33 GAL)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0044789</b>	LEC0019422	LEC0014293
Sample Date		Client Info		<b>08 Jan 2024</b>	13 Apr 2021	15 Sep 2020
Machine Age	hrs	Client Info		<b>6655</b>	2048	1274
Oil Age	hrs	Client Info		<b>6655</b>	2048	1274
Filter Age	hrs	Client Info		<b>0</b>	2048	1274
Oil Changed		Client Info		<b>Changed</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Chngd
Sample Status				<b>ABNORMAL</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>1</b>	8	9
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	2
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>	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>0</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

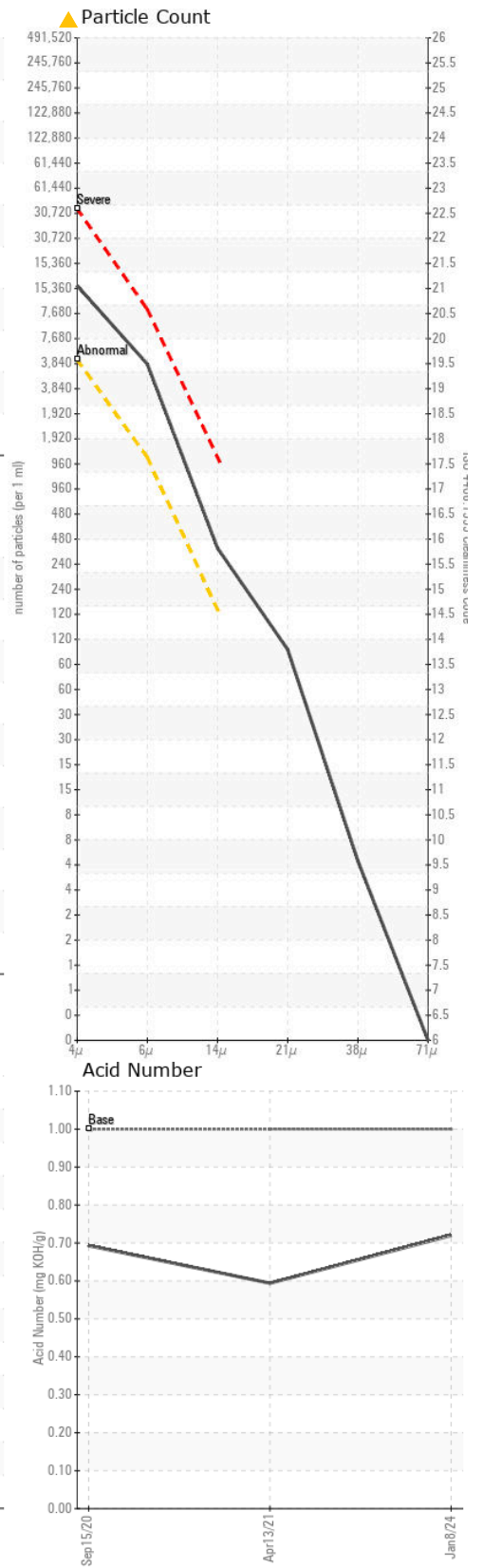
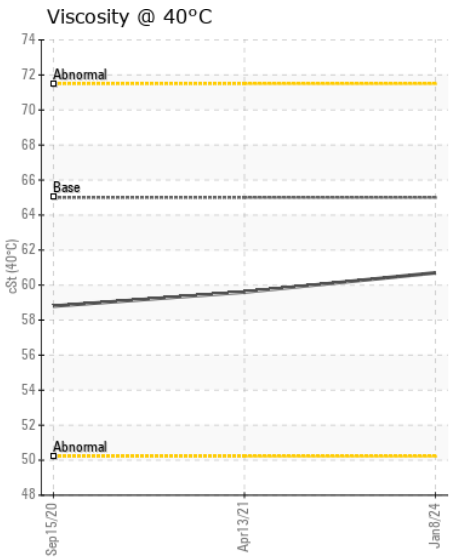
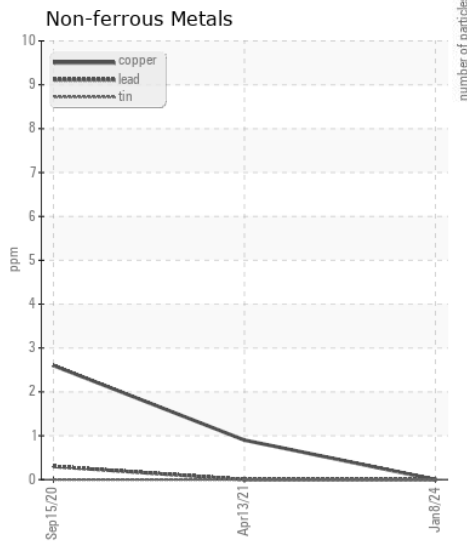
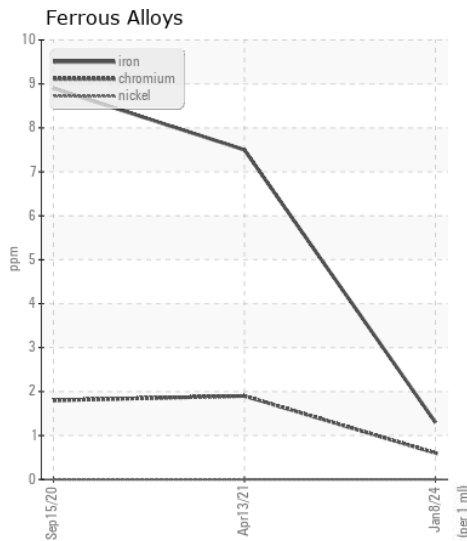
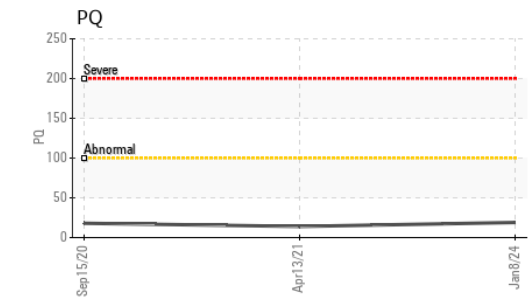
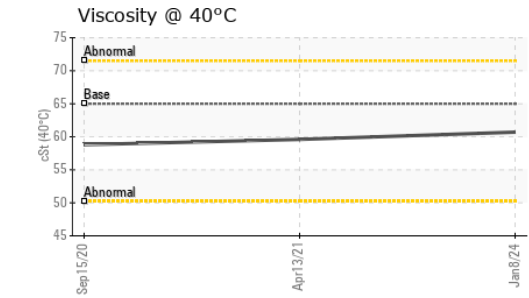
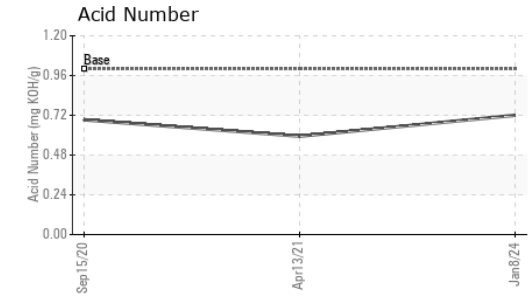
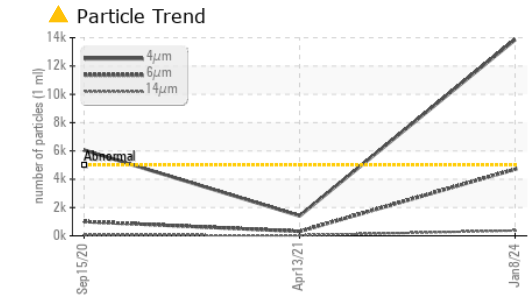
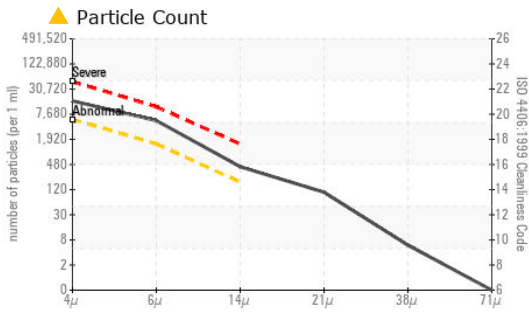
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>1</b>	7	12
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 13857</b>	1410	<b>▲ 6062</b>
Particles >6µm		ASTM D7647	>1300	<b>▲ 4707</b>	313	1007
Particles >14µm		ASTM D7647	>160	<b>▲ 373</b>	32	53
Particles >21µm		ASTM D7647	>40	<b>▲ 92</b>	9	15
Particles >38µm		ASTM D7647	>10	<b>5</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/19/16</b>	18/15/12	<b>▲ 20/17/13</b>
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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>0</b>	0	3
Boron	ppm	ASTM D5185m		<b>0</b>	<1	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	6	3
Calcium	ppm	ASTM D5185m	87	<b>99</b>	285	120
Phosphorus	ppm	ASTM D5185m	727	<b>674</b>	721	609
Zinc	ppm	ASTM D5185m	900	<b>846</b>	925	808
Sulfur	ppm	ASTM D5185m	1500	<b>1580</b>	1584	1465
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.72</b>	0.594	0.693
Visc @ 40°C	cSt	ASTM D445	65	<b>60.7</b>	59.6	58.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0044789 **Received** : 10 Jan 2024  
**Lab Number** : 06056594 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822543 **Diagnostician** : 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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