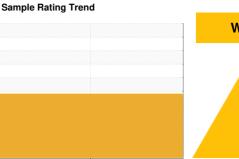


# **OIL ANALYSIS REPORT**









## Machine Id **JOHN DEERE 650J T0650JX107808**

Hydraulic System JOHN DEERE HYDRAL

## **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The copper level is abnormal. All other component wear rates are normal.

## Contamination

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

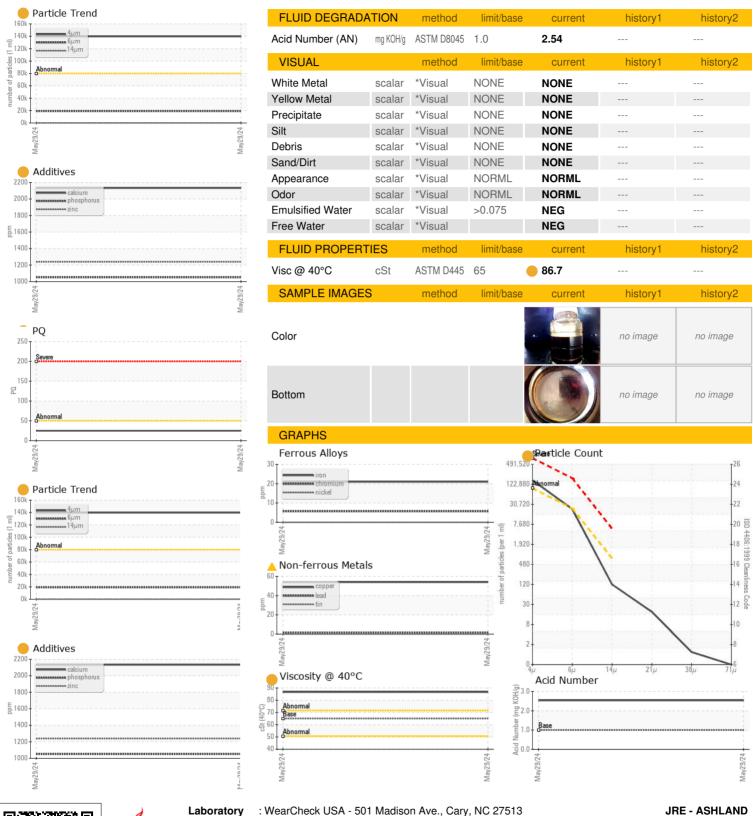
### Fluid Condition

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

U ( GAL)			1	May2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history?
	VIATION		IIIIII/Dase		history1	history2
Sample Number		Client Info		JR0212172		
Sample Date		Client Info		29 May 2024		
Machine Age	hrs	Client Info		7432		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A ABNORMAL		
Sample Status						
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	25		
Iron	ppm	ASTM D5185m	>23	21		
Chromium	ppm	ASTM D5185m	>9	6		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>9	3		
Lead	ppm	ASTM D5185m	>28	1		
Copper	ppm	ASTM D5185m	>51	<u>^</u> 54		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		97		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		61		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<b>345</b>		
Calcium	ppm	ASTM D5185m	87	<u>2133</u>		
Phosphorus	ppm	ASTM D5185m	727	1051		
Zinc	ppm	ASTM D5185m	900	<u> </u>		
Sulfur	ppm	ASTM D5185m	1500	<b>4043</b>		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>31	11		
Sodium	ppm	ASTM D5185m	>21	2		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	<b>139754</b>		
Particles >6µm		ASTM D7647	>20000	19155		
Particles >14µm		ASTM D7647	>640	106		
Particles >21µm		ASTM D7647	>160	16		
Particles >38μm		ASTM D7647	>40	1		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>24/21/14</b>		



# OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: JR0212172 : 06196578

Lab Number Unique Number : 11058701

Diagnosed Test Package : CONST ( Additional Tests: PQ )

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received

**Tested** 

: 31 May 2024

: 03 Jun 2024

: 03 Jun 2024 - Don Baldridge

 $^st$  - 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)

11047 LEADBETTER RD ASHLAND, VA

US 23005 Contact: DAVID ZIEG dzieg@jamesriverequipment.com

T: (804)798-6001 F: (804)798-0292

Report Id: JAMASH [WUSCAR] 06196578 (Generated: 06/03/2024 14:52:14) Rev: 1

Contact/Location: DAVID ZIEG - JAMASH