



OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 3039R J102374**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- GAL)**

**RECOMMENDATION**

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0158837</b>	JR0129652	---
Sample Date		Client Info		<b>09 Jan 2024</b>	03 Jan 2023	---
Machine Age	hrs	Client Info		<b>362</b>	307	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

**WEAR**

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

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>40</b>	62	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>2</b>	2	---
Aluminum	ppm	ASTM D5185m	>10	<b>3</b>	5	---
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185m	>75	<b>18</b>	19	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

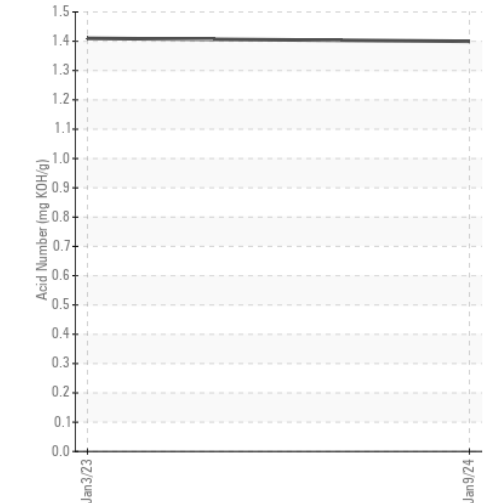
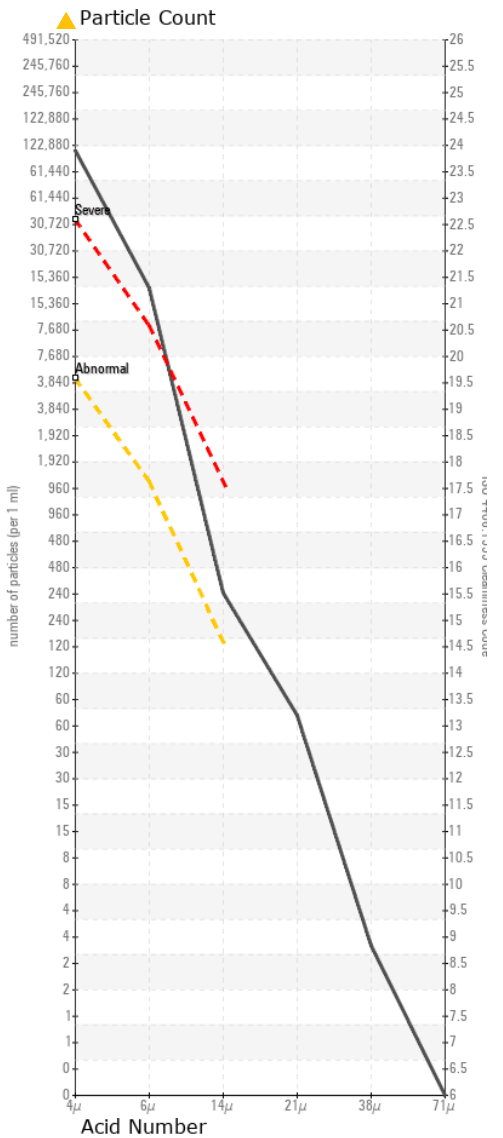
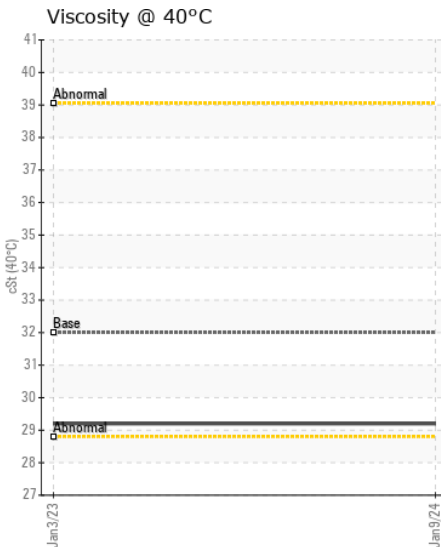
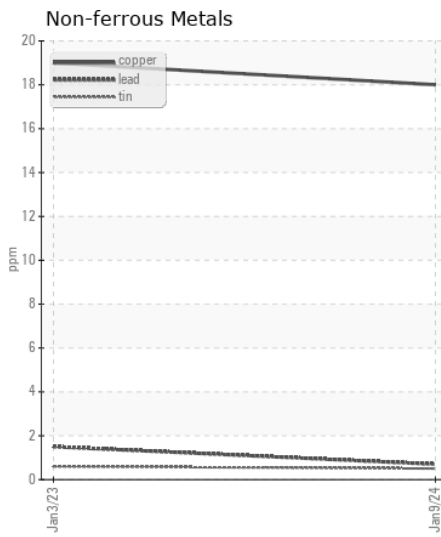
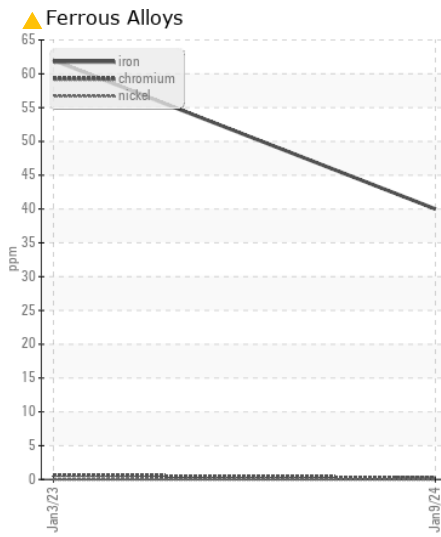
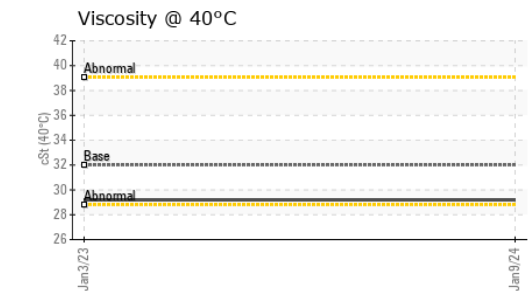
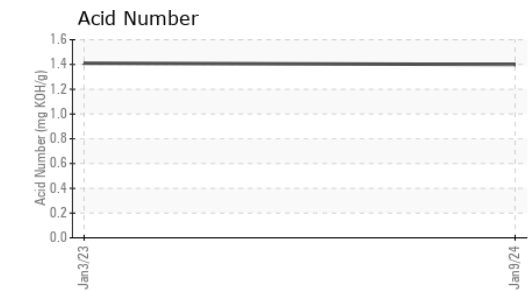
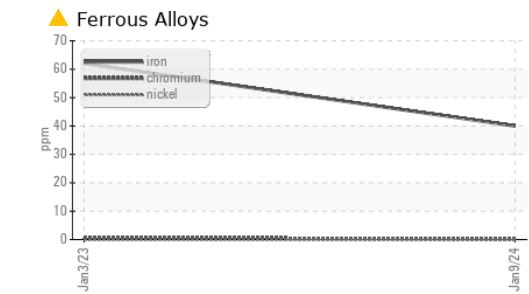
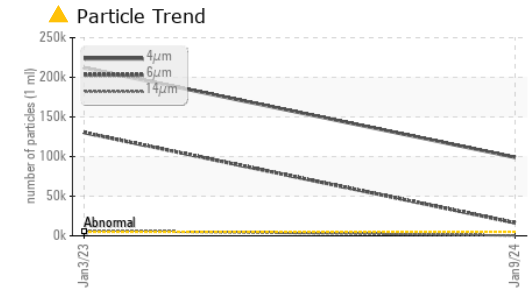
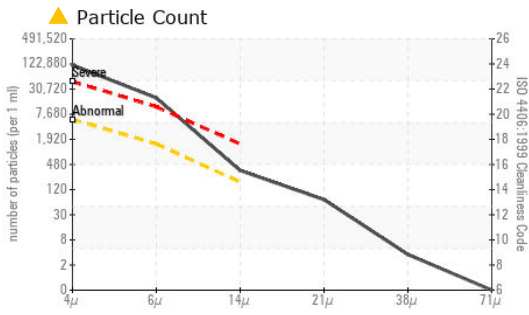
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>5000	<b>99003</b>	211953	---
Particles >6µm		ASTM D7647	>1300	<b>16376</b>	130261	---
Particles >14µm		ASTM D7647	>160	<b>303</b>	6480	---
Particles >21µm		ASTM D7647	>40	<b>61</b>	312	---
Particles >38µm		ASTM D7647	>10	<b>3</b>	4	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>24/21/15</b>	25/24/20	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>7</b>	6	---
Boron	ppm	ASTM D5185m		<b>4</b>	3	---
Barium	ppm	ASTM D5185m		<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>2</b>	3	---
Magnesium	ppm	ASTM D5185m		<b>90</b>	92	---
Calcium	ppm	ASTM D5185m		<b>3327</b>	3558	---
Phosphorus	ppm	ASTM D5185m		<b>1048</b>	1009	---
Zinc	ppm	ASTM D5185m		<b>1261</b>	1213	---
Sulfur	ppm	ASTM D5185m		<b>3537</b>	4228	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.40</b>	1.41	---
Visc @ 40°C	cSt	ASTM D445	32	<b>29.2</b>	29.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0158837 **Received** : 10 Jan 2024  
**Lab Number** : 06056595 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822544 **Diagnostician** : Don Baldrige  
**Test Package** : MOBCE ( 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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