

# PROBLEM SUMMARY

Area  
**[W46597]**  
 Machine Id  
**JOHN DEERE 26G 1FF026GXLML267055**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

Sample Rating Trend

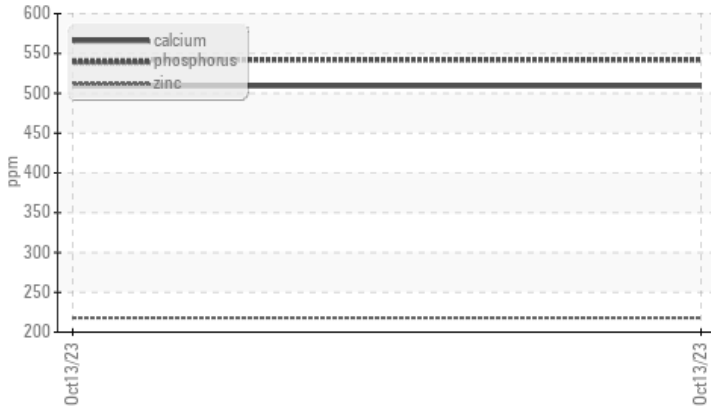


## ADDITIVES

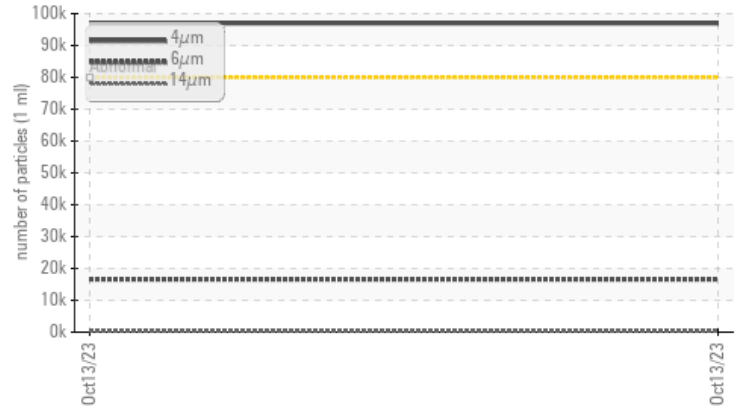


### COMPONENT CONDITION SUMMARY

▲ Additives



▲ Particle Trend



### RECOMMENDATION

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

### PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL		---	---		
Zinc	ppm	ASTM D5185m	370	▲ 218	---	---
Particles >4µm		ASTM D7647	>80000	▲ 96990	---	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	▲ 24/21/15	---	---

Customer Id: JAMASH  
 Sample No.: JR0179175  
 Lab Number: 05979523  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
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To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.
Flush System	---	---	?	Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend

**ADDITIVES**

Area

**[W46597]**

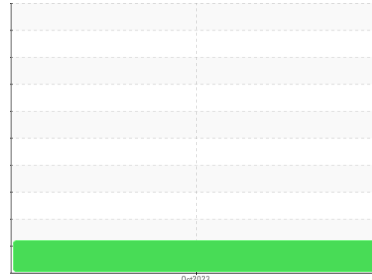
Machine Id

**JOHN DEERE 26G 1FF026GXLML267055**

Component

**Hydraulic System**

Fluid

**AW HYDRAULIC OIL ISO 46 (--- GAL)**

**DIAGNOSIS**
**▲ Recommendation**

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

**Wear**

All component wear rates are normal.

**▲ Contamination**

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

**▲ Fluid Condition**

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>JR0179175</b>	---	---
Sample Date	Client Info			<b>13 Oct 2023</b>	---	---
Machine Age	hrs	Client Info		<b>463</b>	---	---
Oil Age	hrs	Client Info		<b>463</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	<b>13</b>	---	---
Iron	ppm	ASTM D5185m	>32	<b>9</b>	---	---
Chromium	ppm	ASTM D5185m	>9	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>9	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m	>28	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>10</b>	---	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

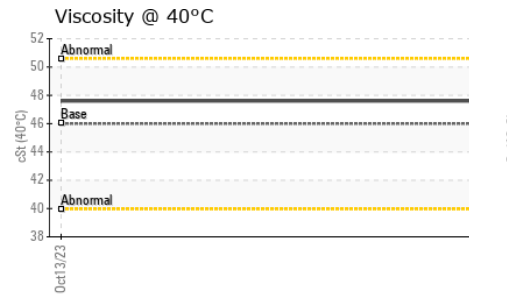
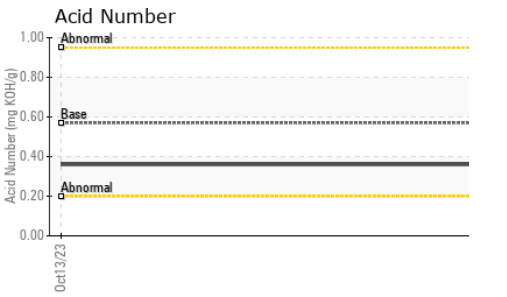
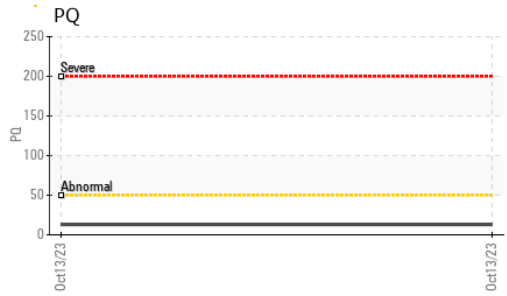
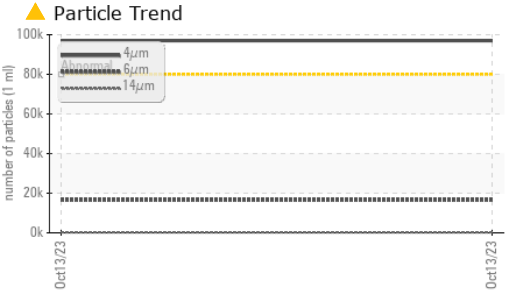
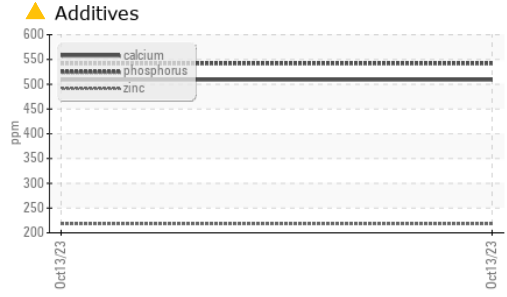
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	5	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	5	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	25	<b>20</b>	---	---
Calcium	ppm	ASTM D5185m	200	<b>509</b>	---	---
Phosphorus	ppm	ASTM D5185m	300	<b>542</b>	---	---
Zinc	ppm	ASTM D5185m	370	<b>▲ 218</b>	---	---
Sulfur	ppm	ASTM D5185m	2500	<b>1184</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	<b>2</b>	---	---
Sodium	ppm	ASTM D5185m	>21	<b>2</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	<b>▲ 96990</b>	---	---
Particles >6µm		ASTM D7647	>20000	<b>16589</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>246</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>44</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>4</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>1</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>▲ 24/21/15</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.36</b>	---	---



# OIL ANALYSIS REPORT



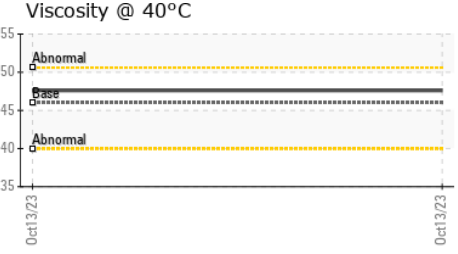
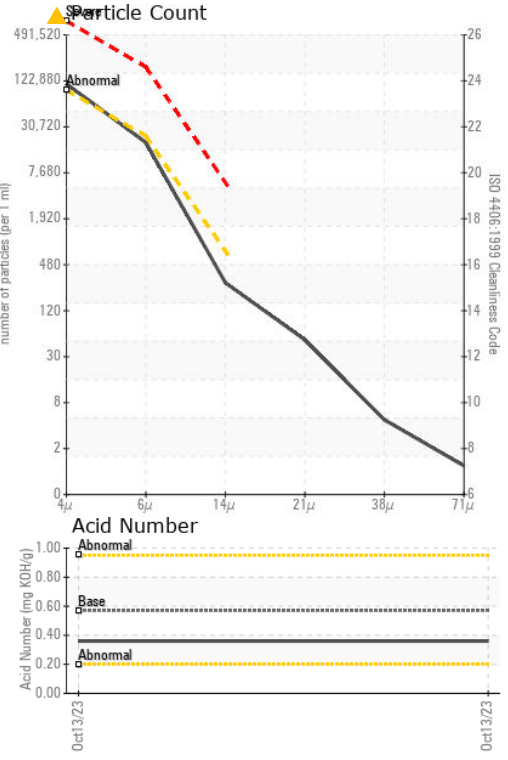
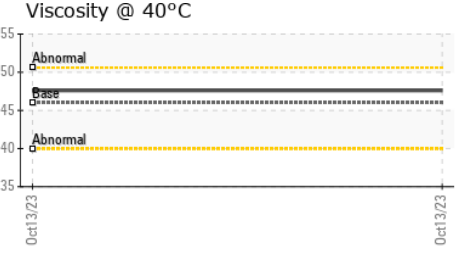
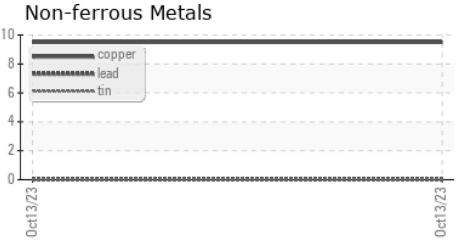
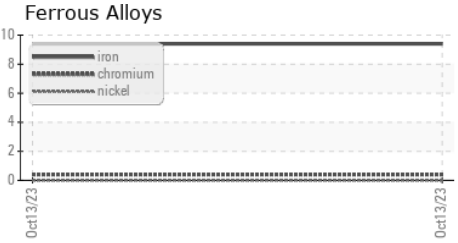
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual >0.075	<b>NEG</b>	---	---
Free Water	scalar	*Visual	<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	<b>47.6</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0179175 **Received** : 16 Oct 2023  
**Lab Number** : 05979523 **Diagnosed** : 17 Oct 2023  
**Unique Number** : 10696818 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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 F: (804)798-0292

Certificate L2367  
 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)