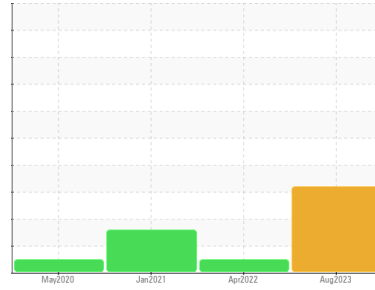


# PROBLEM SUMMARY

Sample Rating Trend

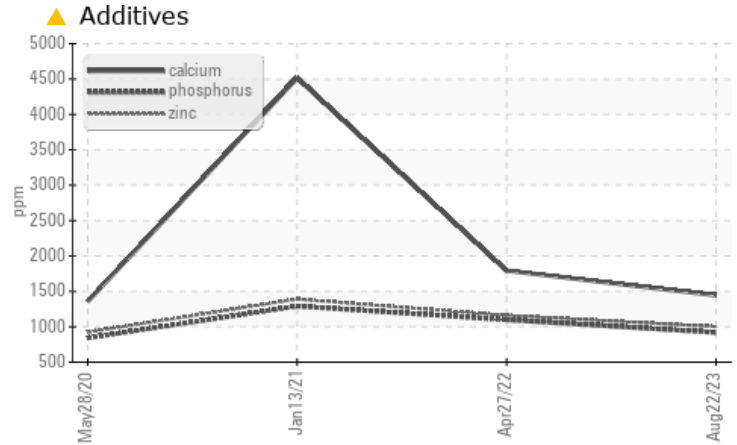
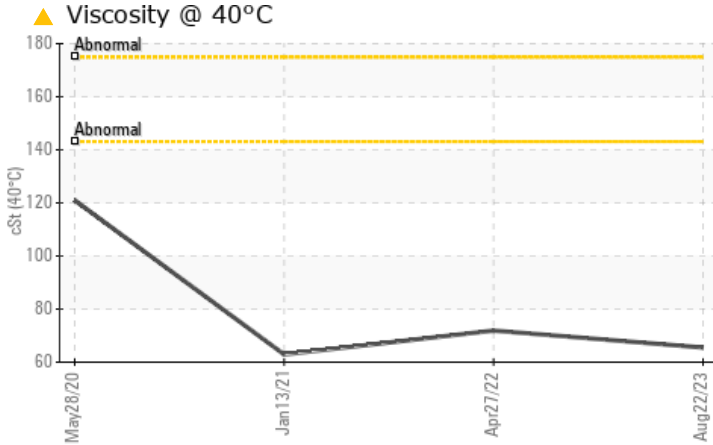


## VISCOSITY



Machine Id  
**HITACHI 300LC 1FFDDR70TKF840603**  
Component  
**Pump Drive**  
Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	NORMAL	ABNORMAL
Boron	ppm	ASTM D5185m	▲ 296	320	63
Molybdenum	ppm	ASTM D5185m	▲ 234	266	117
Magnesium	ppm	ASTM D5185m	▲ 770	926	17
Calcium	ppm	ASTM D5185m	▲ 1445	1793	4516
Phosphorus	ppm	ASTM D5185m	▲ 918	1098	1290
Zinc	ppm	ASTM D5185m	▲ 1001	1159	1390
Sulfur	ppm	ASTM D5185m	▲ 3502	3397	8727
Visc @ 40°C	cSt	ASTM D445	▲ 65.5	71.9	62.9

Customer Id: JAMFIS  
Sample No.: JR0167108  
Lab Number: 05932983  
Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

### 27 Apr 2022 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



### 13 Jan 2021 Diag: Don Baldrige

DIRT



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

view report



### 28 May 2020 Diag: Don Baldrige

NORMAL



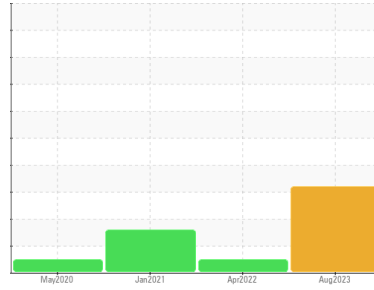
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Machine Id  
**HITACHI 300LC 1FFDDR70TKF840603**  
Component  
**Pump Drive**  
Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

### DIAGNOSIS

#### ▲ Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### ▲ Fluid Condition

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>JR0167108</b>	JR0129273	JR0072374
Sample Date	Client Info		<b>22 Aug 2023</b>	27 Apr 2022	13 Jan 2021
Machine Age	hrs	Client Info	<b>3541</b>	1972	1074
Oil Age	hrs	Client Info	<b>1000</b>	500	1074
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status			<b>ATTENTION</b>	NORMAL	ABNORMAL

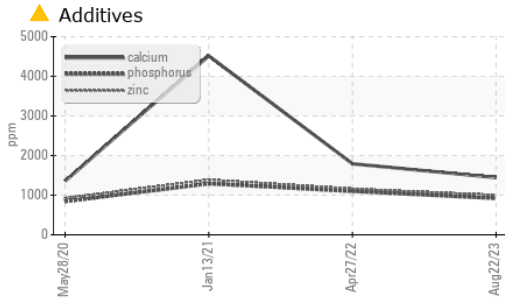
WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>14</b>	20	24
Iron	ppm	ASTM D5185m >500	<b>52</b>	48	138
Chromium	ppm	ASTM D5185m >15	<b>1</b>	1	4
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >20	<b>5</b>	5	2
Lead	ppm	ASTM D5185m	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >35	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m >5	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>▲ 296</b>	320	63
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	12
Molybdenum	ppm	ASTM D5185m	<b>▲ 234</b>	266	117
Manganese	ppm	ASTM D5185m	<b>2</b>	2	6
Magnesium	ppm	ASTM D5185m	<b>▲ 770</b>	926	17
Calcium	ppm	ASTM D5185m	<b>▲ 1445</b>	1793	4516
Phosphorus	ppm	ASTM D5185m	<b>▲ 918</b>	1098	1290
Zinc	ppm	ASTM D5185m	<b>▲ 1001</b>	1159	1390
Sulfur	ppm	ASTM D5185m	<b>▲ 3502</b>	3397	8727

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>22</b>	27	<b>▲ 80</b>
Sodium	ppm	ASTM D5185m	<b>2</b>	3	<1
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	4

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
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 >0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

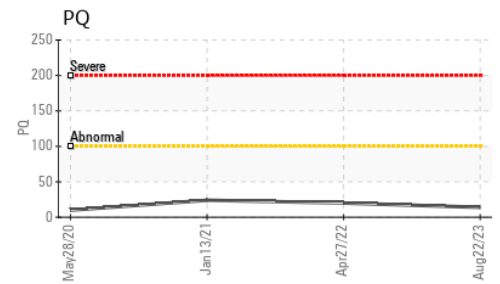
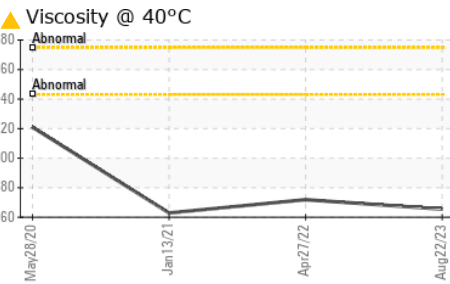
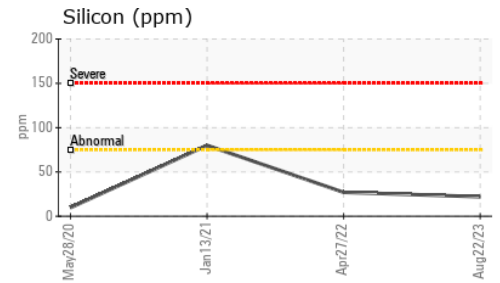
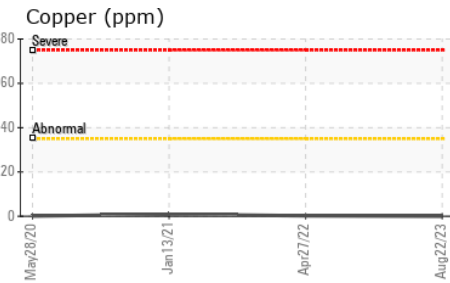
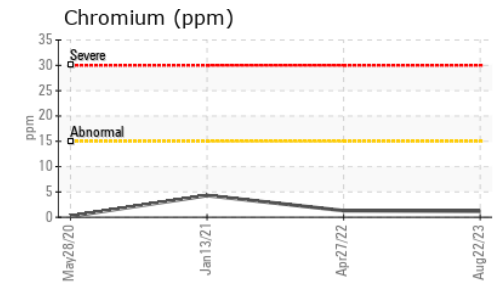
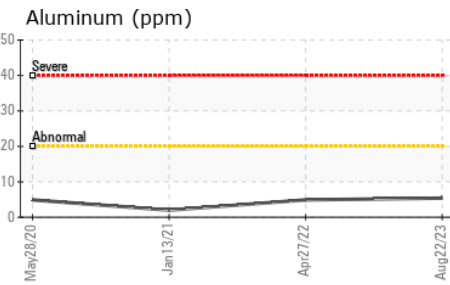
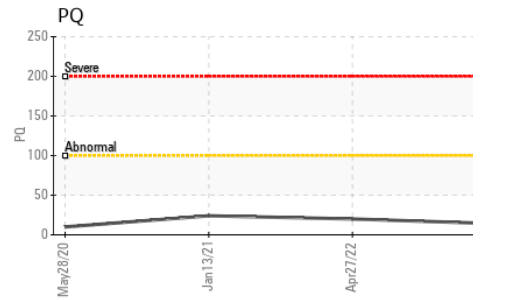
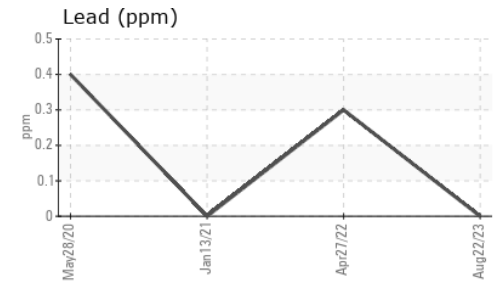
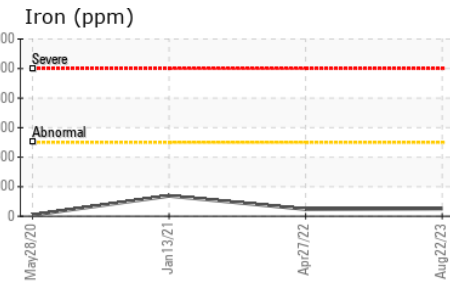
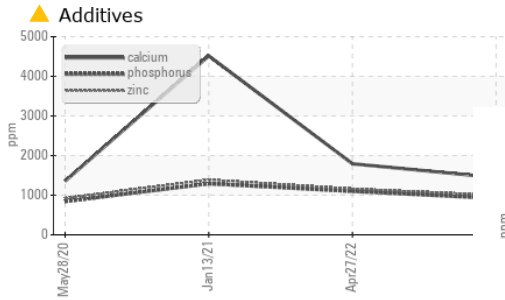


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	▲ 65.5	71.9	62.9

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0167108 **Received** : 23 Aug 2023  
**Lab Number** : 05932983 **Diagnosed** : 25 Aug 2023  
**Unique Number** : 10618254 **Diagnostician** : Sean Felton  
**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)

**JRE - FISHERSVILLE**  
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