

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**


Area

**[W47347]**

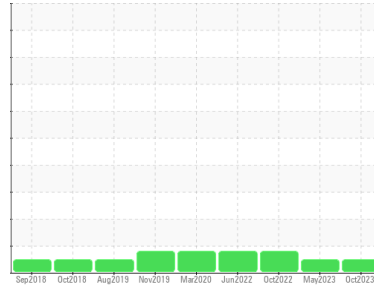
Machine Id

**JOHN DEERE 844K 1DW844KAEJF688182**

Component

**Front Differential**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (--- 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>JR0179111</b>	JR0165799	JR0125692
Sample Date	Client Info			<b>16 Oct 2023</b>	05 May 2023	14 Oct 2022
Machine Age	hrs	Client Info		<b>7945</b>	6135	3983
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

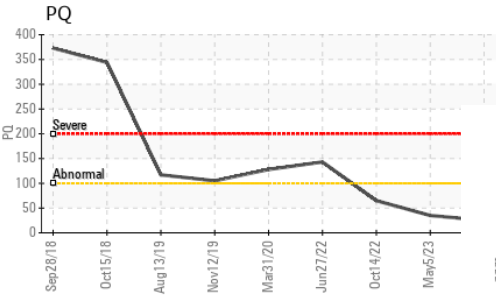
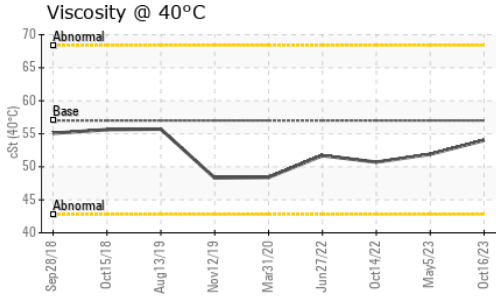
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>25</b>	35	65
Iron	ppm	ASTM D5185m	>500	<b>60</b>	117	188
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	5	1
Lead	ppm	ASTM D5185m	>25	<b>4</b>	5	12
Copper	ppm	ASTM D5185m	>100	<b>67</b>	98	▲ 216
Tin	ppm	ASTM D5185m	>10	<b>2</b>	4	6
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	<b>4</b>	3	5
Barium	ppm	ASTM D5185m	0	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>2</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	3	6
Magnesium	ppm	ASTM D5185m	145	<b>114</b>	98	95
Calcium	ppm	ASTM D5185m	3570	<b>3158</b>	3484	3536
Phosphorus	ppm	ASTM D5185m	1290	<b>1005</b>	1024	1019
Zinc	ppm	ASTM D5185m	1640	<b>1234</b>	1279	1182
Sulfur	ppm	ASTM D5185m		<b>3326</b>	5141	4067

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>6</b>	12	11
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	3
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	0

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	MODER	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	>.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

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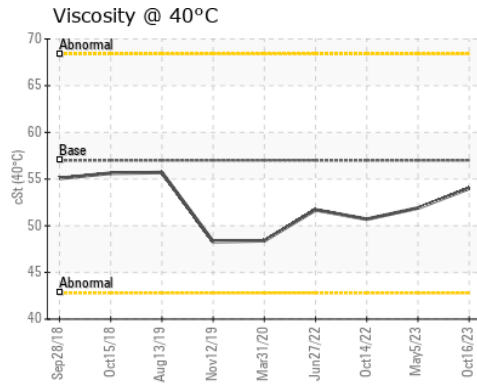
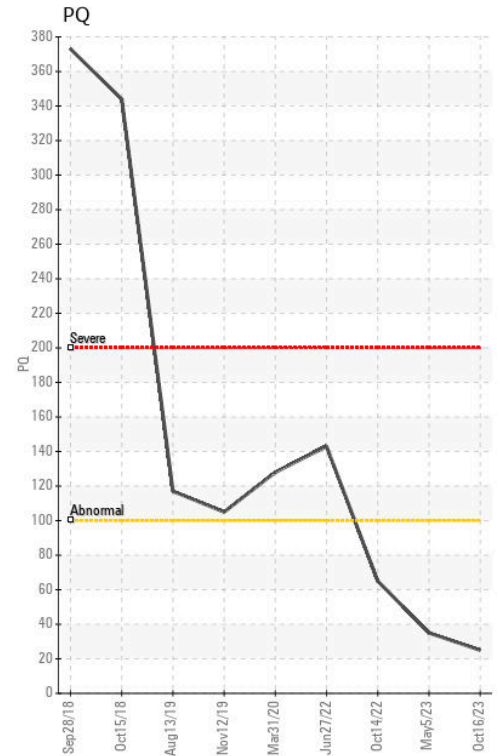
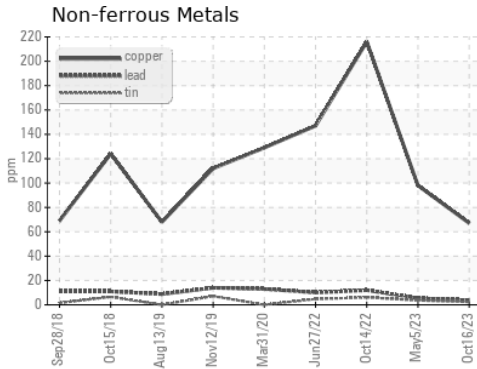
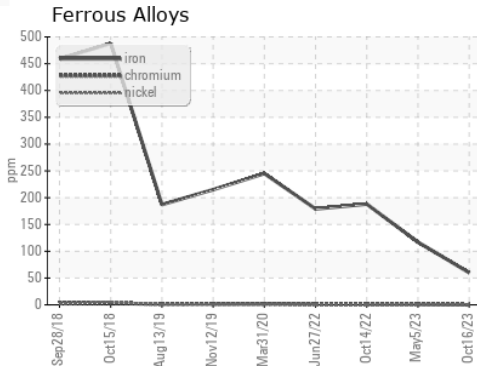


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	<b>54.0</b>	51.9	50.7

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.** : JR0179111 **Received** : 18 Oct 2023  
**Lab Number** : 05982555 **Diagnosed** : 19 Oct 2023  
**Unique Number** : 10699850 **Diagnostician** : Sean Felton  
**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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