



# OIL ANALYSIS REPORT

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

Area

[A33390]

Machine Id

JOHN DEERE 444P 1DW444PALNLZ16754

Component

Transmission

Fluid

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0005595	---	---
Sample Date		Client Info		11 Sep 2023	---	---
Machine Age	hrs	Client Info		715	---	---
Oil Age	hrs	Client Info		715	---	---
Filter Age	hrs	Client Info		715	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>100	14	---	---
Iron	ppm	ASTM D5185m	>61	16	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>20	<1	---	---
Lead	ppm	ASTM D5185m	>9	3	---	---
Copper	ppm	ASTM D5185m	>100	8	---	---
Tin	ppm	ASTM D5185m	>3	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

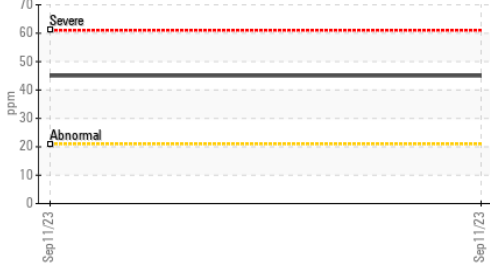
Silicon	ppm	ASTM D5185m	>21	▲ 45	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water		WC Method	>0.075	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.075	NEG	---	---

## FLUID CONDITION

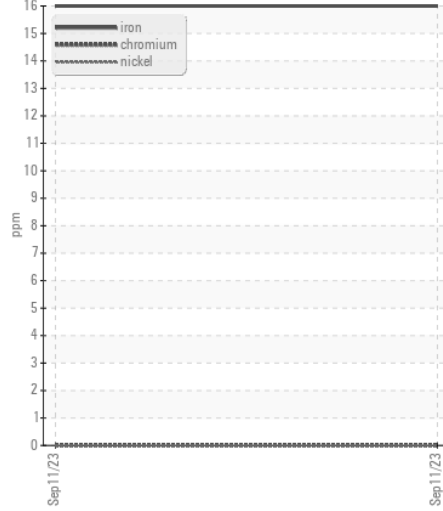
The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>30	24	---	---
Boron	ppm	ASTM D5185m	6	2	---	---
Barium	ppm	ASTM D5185m	0	0	---	---
Molybdenum	ppm	ASTM D5185m	0	2	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m	145	94	---	---
Calcium	ppm	ASTM D5185m	3570	3299	---	---
Phosphorus	ppm	ASTM D5185m	1290	987	---	---
Zinc	ppm	ASTM D5185m	1640	1203	---	---
Sulfur	ppm	ASTM D5185m		3981	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	45.0	---	---

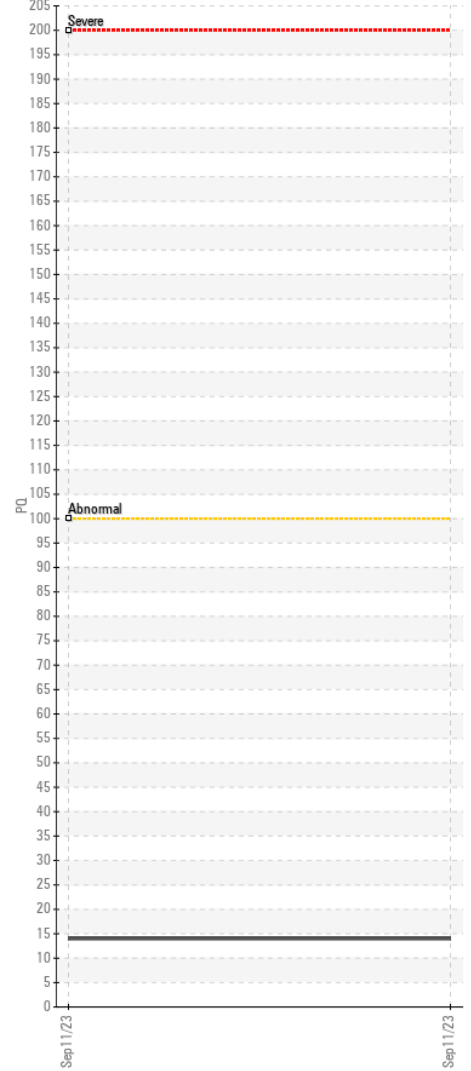
▲ Silicon (ppm)



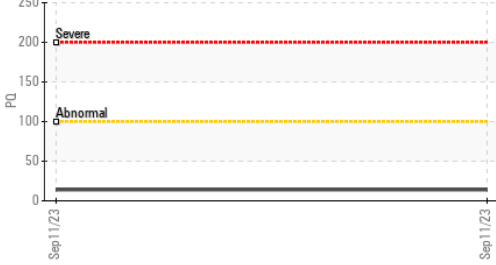
Ferrous Alloys



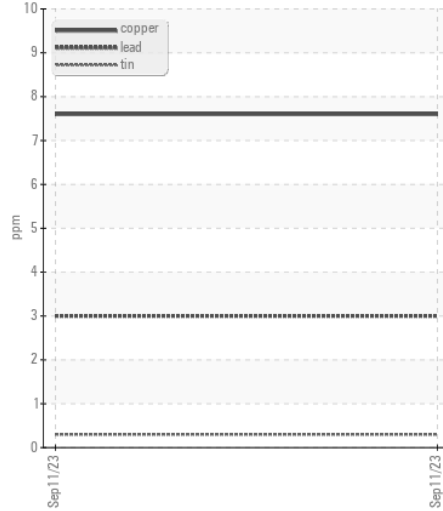
PQ



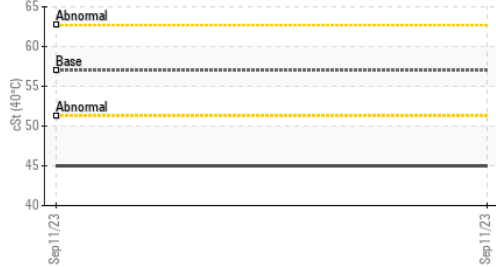
PQ



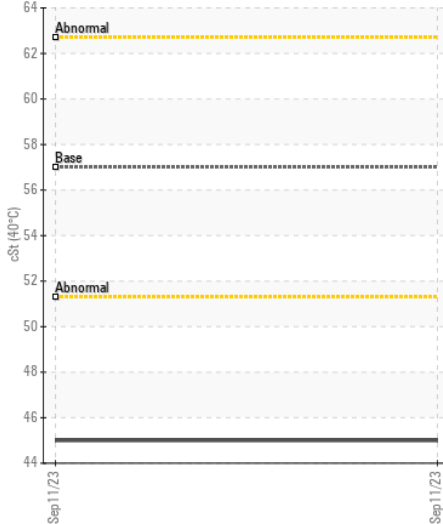
Non-ferrous Metals



Viscosity @ 40°C



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0005595 **Received** : 20 Sep 2023  
**Lab Number** : 05956599 **Diagnosed** : 22 Sep 2023  
**Unique Number** : 10657812 **Diagnostician** : Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE**  
 25135 ONE AVIATION WAY SW  
 MADISON, AL  
 US 35756  
 Contact: HERBERT STONE  
 WTE013@WARRIORTRACTOR.COM

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)

T:  
F: