



# OIL ANALYSIS REPORT

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



Area  
**PCS**  
Machine Id  
**JOHN DEERE 744J LD08 - PCS**  
Component  
**Hydraulic System**  
Fluid  
**STP HYDRO OIL ISO AW 46 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0013794</b>	KL0013055	KL0009665
Sample Date		Client Info		<b>10 Apr 2024</b>	03 Oct 2023	29 Jun 2023
Machine Age	hrs	Client Info		<b>9703</b>	9326	9004
Oil Age	hrs	Client Info		<b>2499</b>	2122	1800
Filter Age	hrs	Client Info		<b>2499</b>	2122	1800
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>71	<b>15</b>	26	23
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>11	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m	>13	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>21	<b>1</b>	<1	2
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

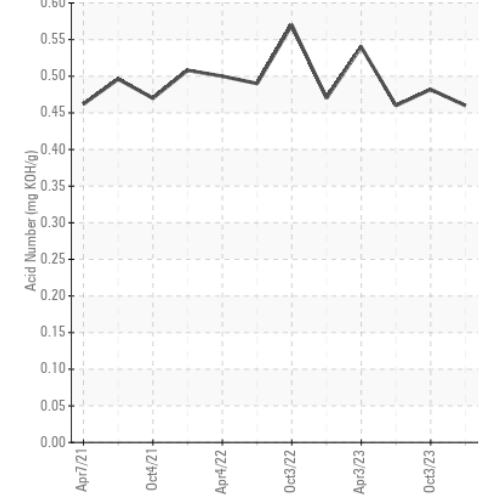
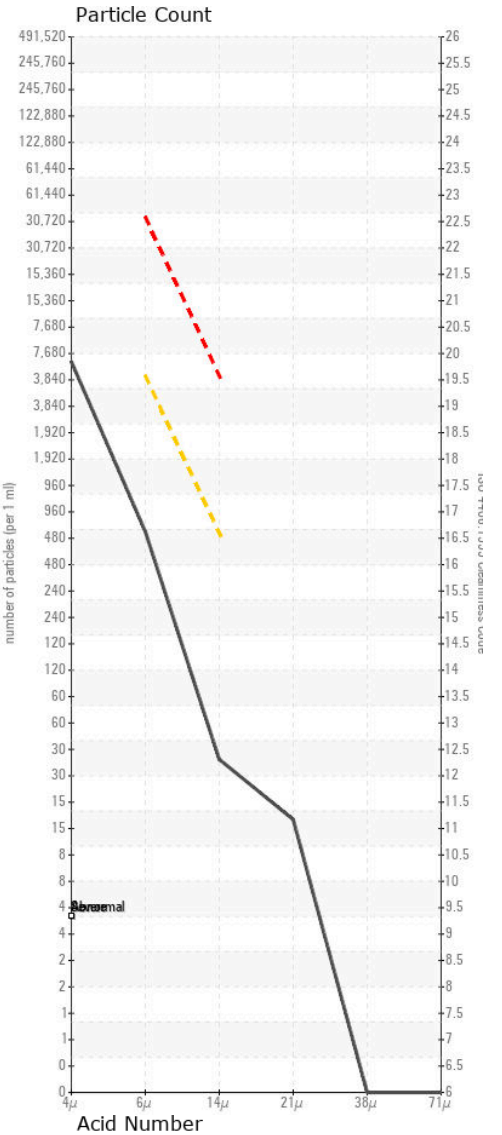
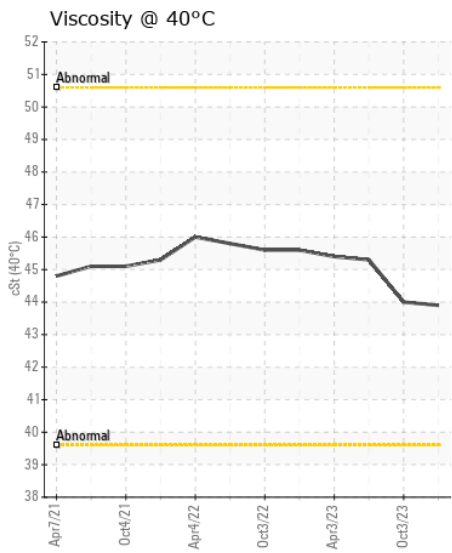
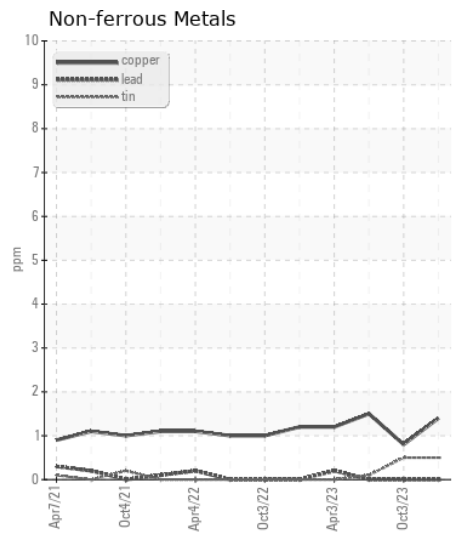
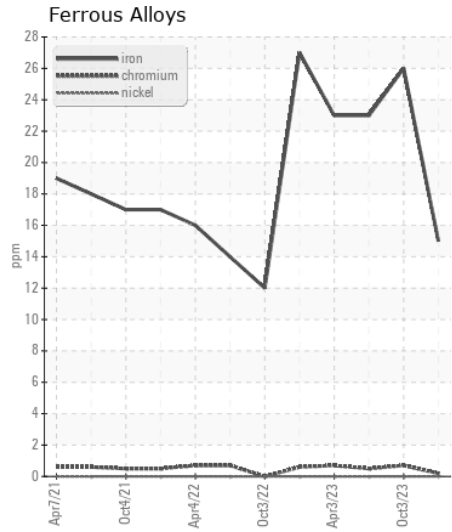
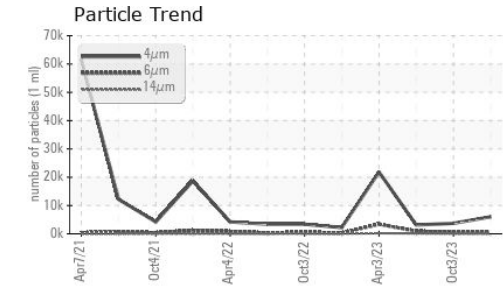
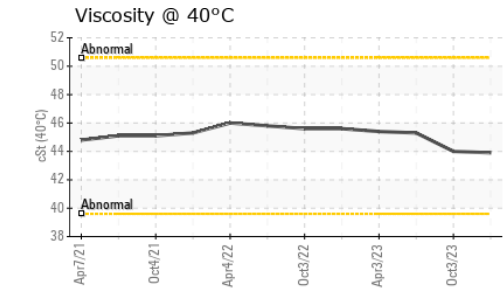
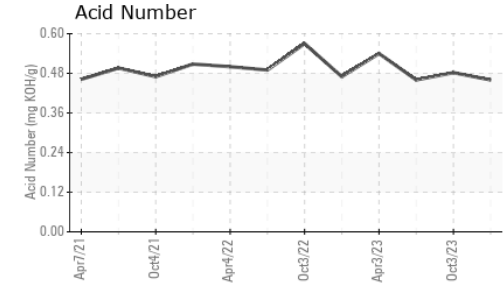
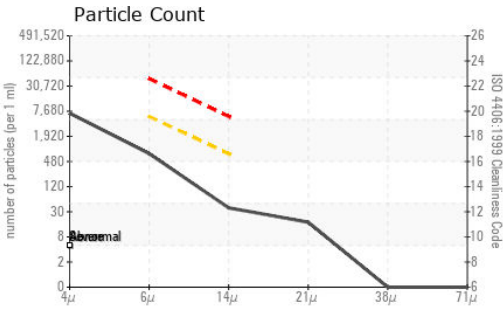
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>24	<b>3</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>6018</b>	3704	3130
Particles >6µm		ASTM D7647	>5000	<b>651</b>	558	933
Particles >14µm		ASTM D7647	>640	<b>33</b>	26	125
Particles >21µm		ASTM D7647	>160	<b>15</b>	12	43
Particles >38µm		ASTM D7647	>40	<b>0</b>	1	2
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/16	<b>17/12</b>	16/12	17/14
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	>0.075	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>2</b>	0	<1
Boron	ppm	ASTM D5185m		<b>4</b>	8	11
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	7	8
Calcium	ppm	ASTM D5185m		<b>278</b>	477	601
Phosphorus	ppm	ASTM D5185m		<b>393</b>	467	517
Zinc	ppm	ASTM D5185m		<b>379</b>	473	490
Sulfur	ppm	ASTM D5185m		<b>1724</b>	2028	2744
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.46</b>	0.482	0.46
Visc @ 40°C	cSt	ASTM D445		<b>43.9</b>	44.0	45.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013794  
**Lab Number** : 06150280  
**Unique Number** : 10980358  
**Test Package** : MOB 2

**Received** : 16 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 17 Apr 2024 - Wes Davis

**PIKES PEAK PERFORMANCE PRODUCTS**  
 7888 BULLET RD  
 PEYTON, CO  
 US 80831

Contact: SCOTT RIGGS  
 rriggs.pikespeakperformance@gmail.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: (303)434-0126

F: x: