



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

Machine Id  
**JOHN DEERE 950K C074920 (S/N 1T0950KPKHF317769)**

Component  
**Hydraulic System**

Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0218915</b>	JR0068268	JR0013524
Sample Date		Client Info		<b>18 Jun 2024</b>	19 Nov 2020	08 Nov 2019
Machine Age	hrs	Client Info		<b>6116</b>	3819	2460
Oil Age	hrs	Client Info		<b>0</b>	0	460
Filter Age	hrs	Client Info		<b>0</b>	0	460
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>6</b>	▲ 26	▲ 28
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	6	7
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	1	1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	1
Copper	ppm	ASTM D5185m	>75	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

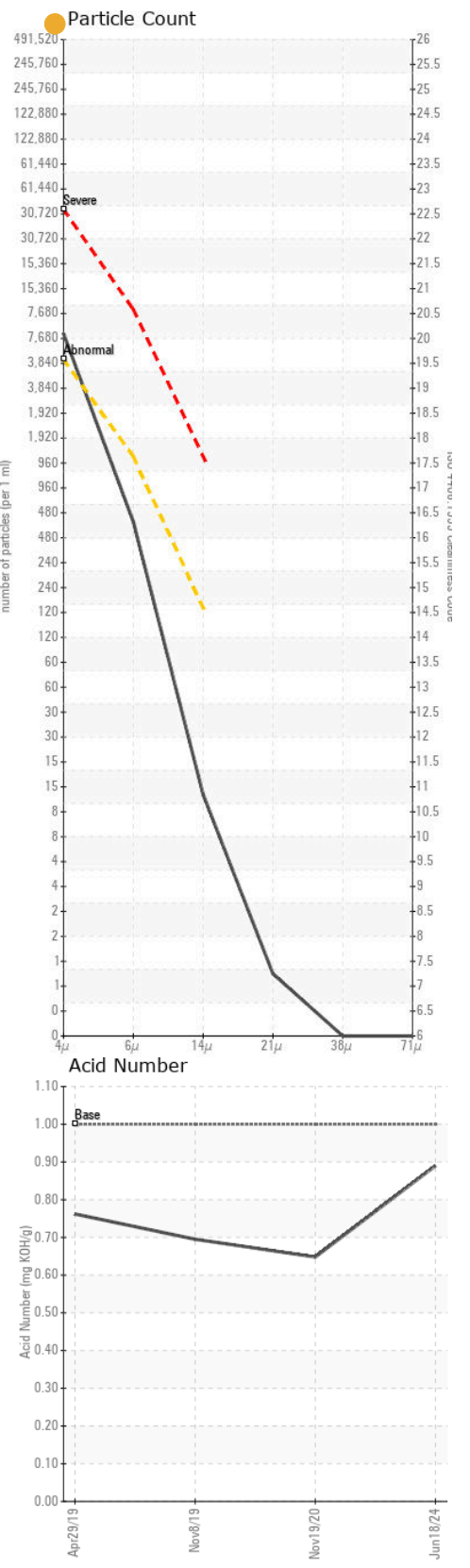
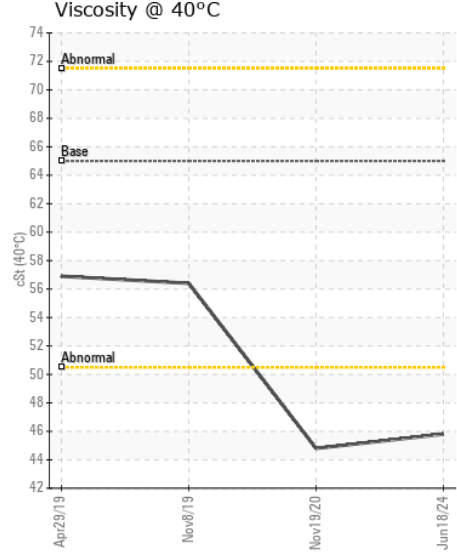
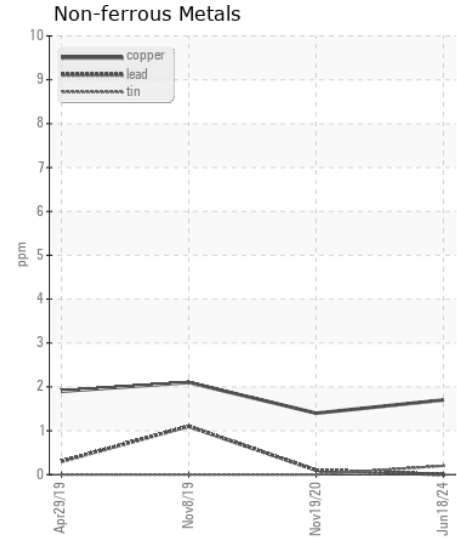
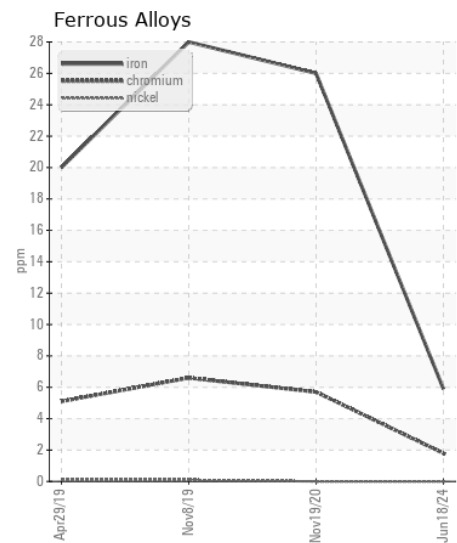
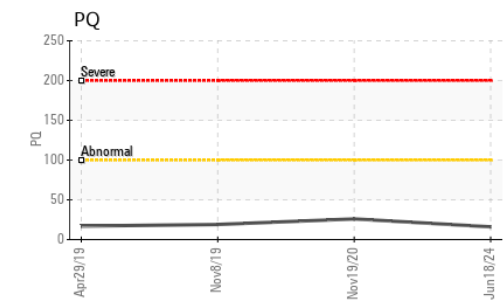
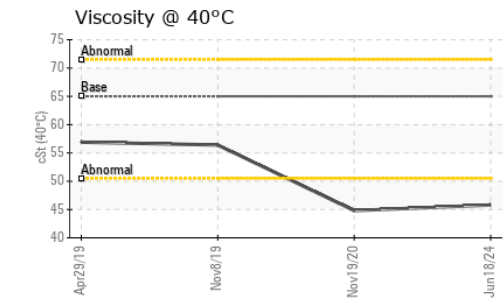
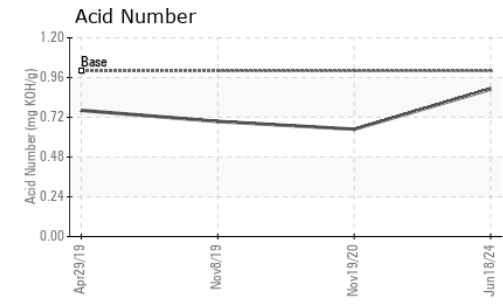
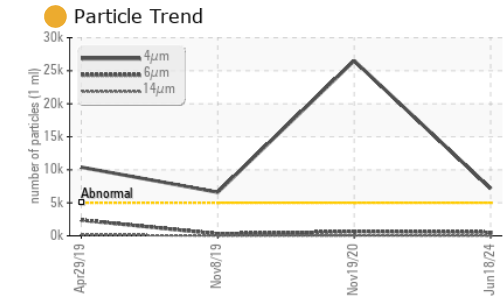
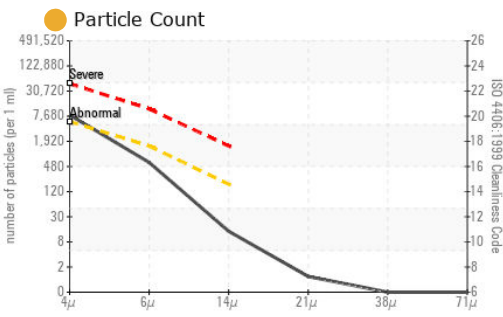
There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>11</b>	0	2
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	1	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	● <b>7157</b>	▲ 26512	6593
Particles >6µm		ASTM D7647	>1300	<b>526</b>	626	298
Particles >14µm		ASTM D7647	>160	<b>12</b>	43	24
Particles >21µm		ASTM D7647	>40	<b>1</b>	11	8
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● <b>20/16/11</b>	▲ 22/16/13	20/15/12
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	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>4</b>	0	1
Boron	ppm	ASTM D5185m		<b>28</b>	2	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>1</b>	1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>54</b>	4	1
Calcium	ppm	ASTM D5185m	87	<b>2086</b>	539	198
Phosphorus	ppm	ASTM D5185m	727	<b>770</b>	576	622
Zinc	ppm	ASTM D5185m	900	<b>902</b>	701	763
Sulfur	ppm	ASTM D5185m	1500	<b>3037</b>	1472	827
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.89</b>	0.648	0.695
Visc @ 40°C	cSt	ASTM D445	65	<b>45.8</b>	44.8	56.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0218915 **Received** : 24 Jun 2024  
**Lab Number** : 06218082 **Tested** : 25 Jun 2024  
**Unique Number** : 11096279 **Diagnosed** : 25 Jun 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - ASHEVILLE**  
 101 BRUCE DRIVE  
 ASHEVILLE, NC  
 US 28806  
 Contact: Randy Warren  
 randy.warren@jamesriverequipment.com  
 T: (528)667-0176  
 F: (828)667-4865

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)