



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



Area  
**[W63939]**  
 Machine Id  
**JOHN DEERE 770GP 1DW770GPEEF665757**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (16 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W63939 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0203555</b>	JR0133623	---
Sample Date		Client Info		<b>09 Feb 2024</b>	24 Jun 2022	---
Machine Age	hrs	Client Info		<b>2000</b>	1026	---
Oil Age	hrs	Client Info		<b>2000</b>	1026	---
Filter Age	hrs	Client Info		<b>0</b>	1026	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>23</b>	22	---
Iron	ppm	ASTM D5185m	>71	<b>20</b>	12	---
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	1	---
Nickel	ppm	ASTM D5185m	>6	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>1</b>	1	---
Aluminum	ppm	ASTM D5185m	>11	<b>3</b>	2	---
Lead	ppm	ASTM D5185m	>13	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>21	<b>24</b>	23	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

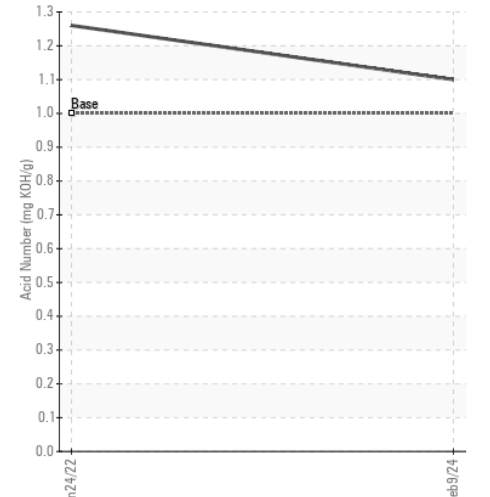
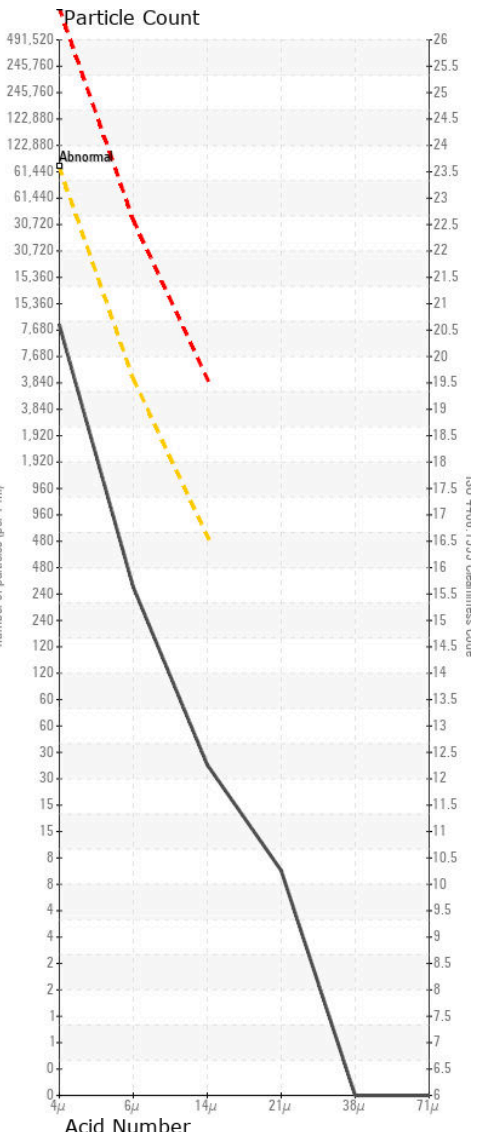
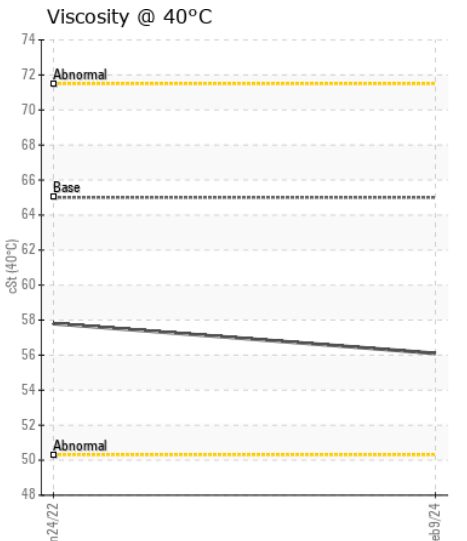
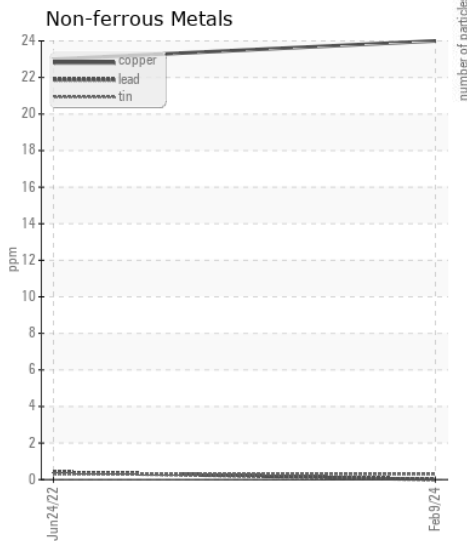
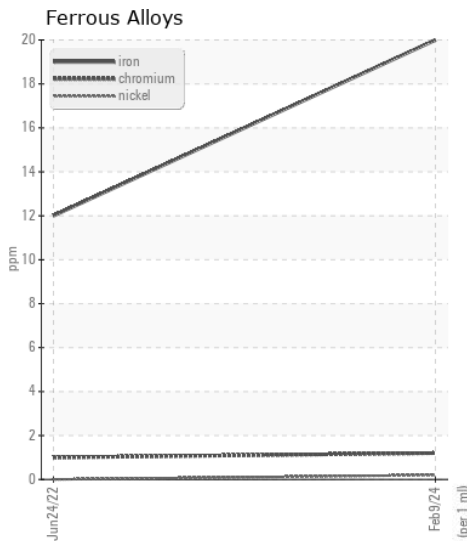
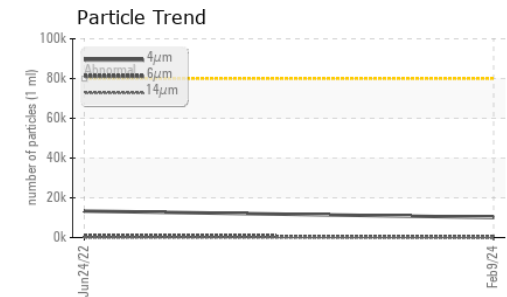
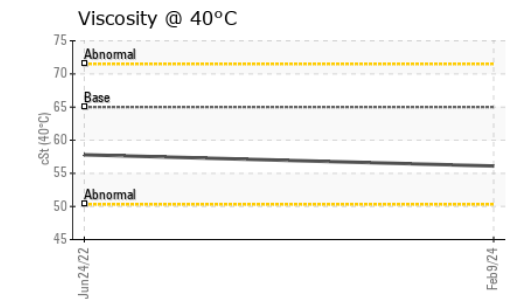
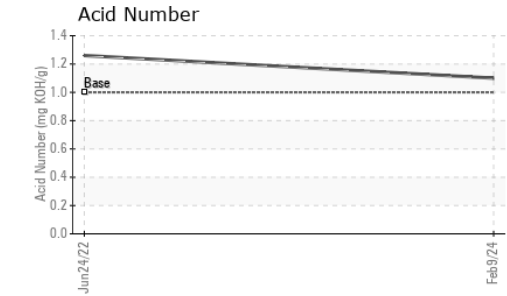
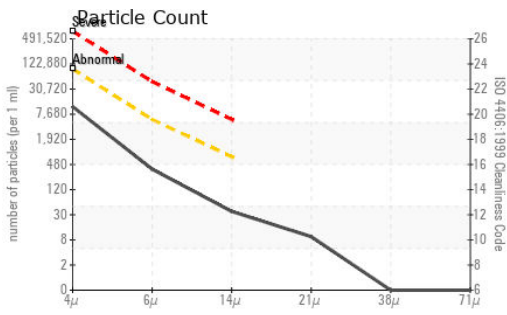
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>24	<b>13</b>	11	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>80000	<b>10120</b>	▲ 13337	---
Particles >6µm		ASTM D7647	>5000	<b>327</b>	820	---
Particles >14µm		ASTM D7647	>640	<b>32</b>	42	---
Particles >21µm		ASTM D7647	>160	<b>8</b>	8	---
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>21/16/12</b>	▲ 21/17/13	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	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>3</b>	4	---
Boron	ppm	ASTM D5185m		<b>0</b>	<1	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>242</b>	253	---
Calcium	ppm	ASTM D5185m	87	<b>2054</b>	2290	---
Phosphorus	ppm	ASTM D5185m	727	<b>988</b>	1000	---
Zinc	ppm	ASTM D5185m	900	<b>1218</b>	1231	---
Sulfur	ppm	ASTM D5185m	1500	<b>3332</b>	4053	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>1.10</b>	1.26	---
Visc @ 40°C	cSt	ASTM D445	65	<b>56.1</b>	57.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0203555

Lab Number : 06088681

Unique Number : 10876126

Test Package : CONST ( Additional Tests: PQ )

Received : 14 Feb 2024

Tested : 15 Feb 2024

Diagnosed : 15 Feb 2024 - Jonathan Hester

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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