



# OIL ANALYSIS REPORT

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



Area  
**Store 5 - Cross Lanes**  
Machine Id  
**JOHN DEERE 50G 1FF050GXKGH284596**  
Component  
**Hydraulic System**  
Fluid  
**HITACHI HYDRAULIC SUPER EX 46HN (17 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0050443</b>	---	---
Sample Date		Client Info		<b>15 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>2269</b>	---	---
Oil Age	hrs	Client Info		<b>2269</b>	---	---
Filter Age	hrs	Client Info		<b>600</b>	---	---
Oil Changed		Client Info		<b>Not Chngd</b>	---	---
Filter Changed		Client Info		<b>Not Chngd</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>13</b>	---	---
Iron	ppm	ASTM D5185m	>32	<b>18</b>	---	---
Chromium	ppm	ASTM D5185m	>9	<b>2</b>	---	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>9	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m	>28	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

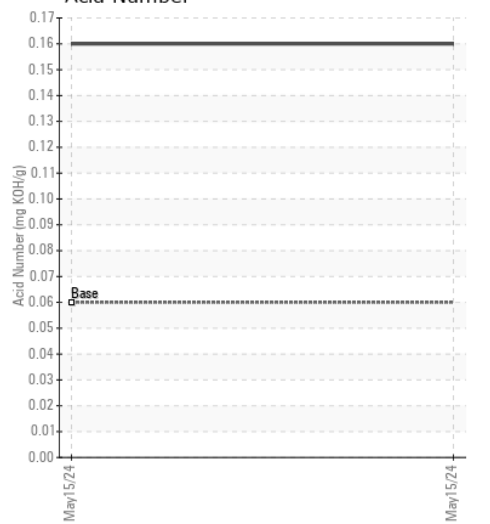
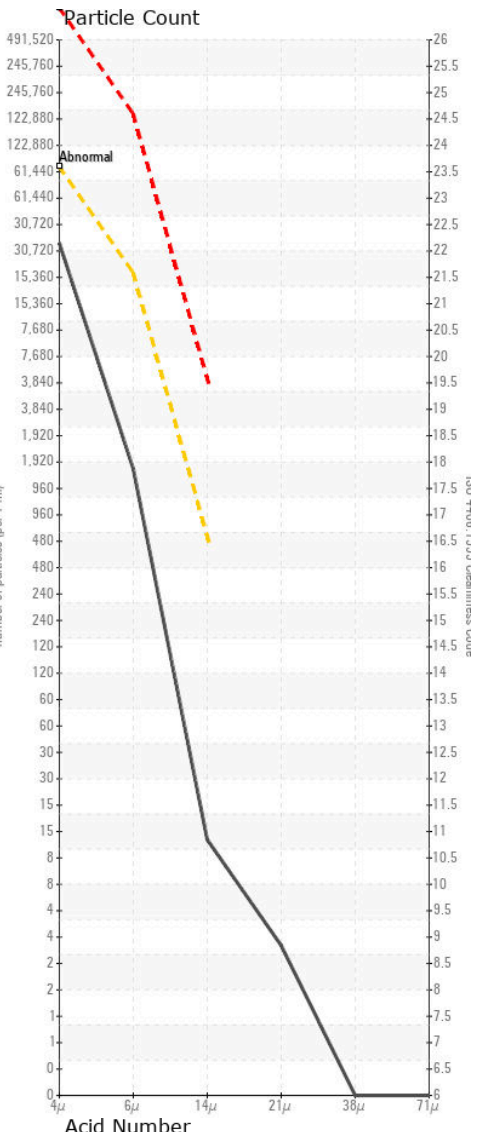
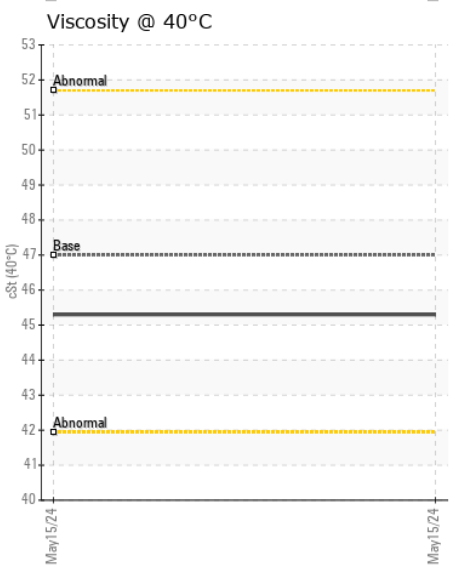
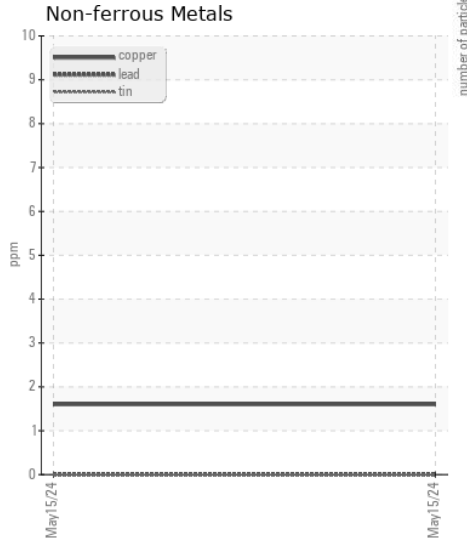
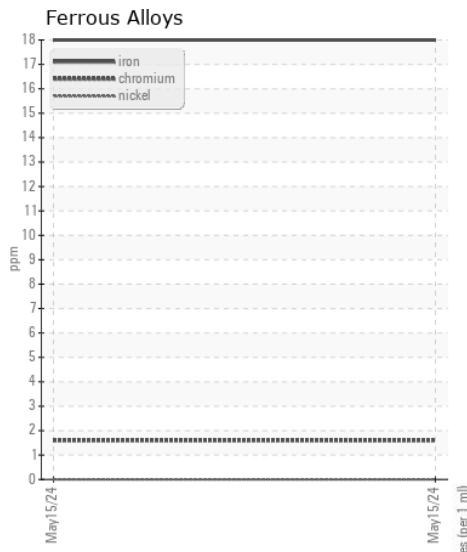
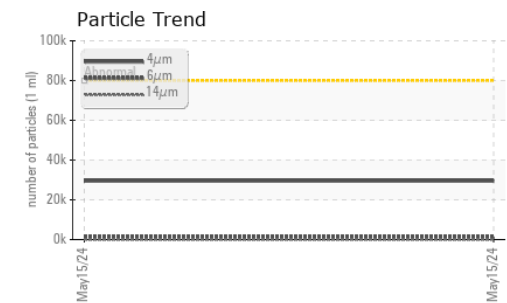
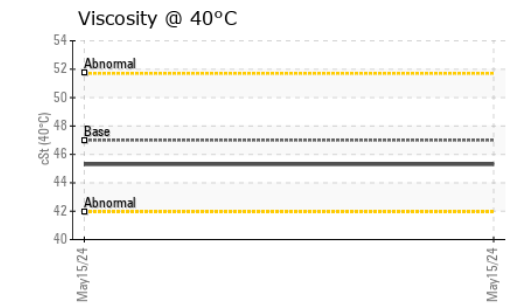
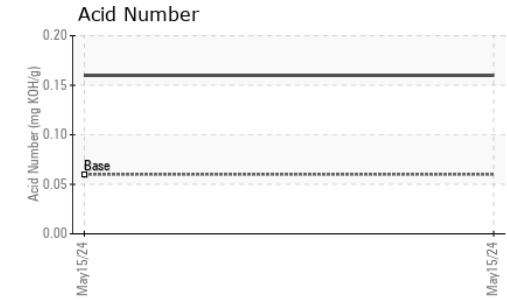
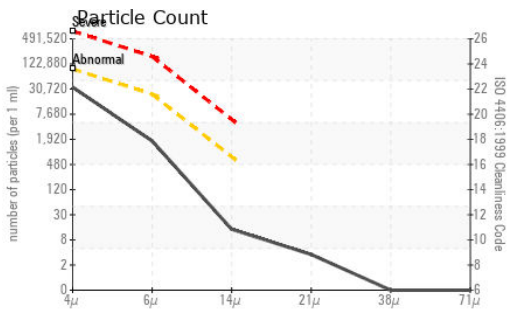
The amount and size of particulates present in the system is acceptable. There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>11	<b>3</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Water		WC Method	>0.075	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647	>80000	<b>29524</b>	---	---
Particles >6µm		ASTM D7647	>20000	<b>1536</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>12</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>3</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>22/18/11</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	---	---

## 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>	---	---
Boron	ppm	ASTM D5185m		<b>0</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	---	---
Calcium	ppm	ASTM D5185m		<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185m	827	<b>270</b>	---	---
Zinc	ppm	ASTM D5185m	0	<b>60</b>	---	---
Sulfur	ppm	ASTM D5185m	13	<b>1151</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.16</b>	---	---
Visc @ 40°C	cSt	ASTM D445	47	<b>45.3</b>	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0050443 **Received** : 22 May 2024  
**Lab Number** : 06187541 **Tested** : 23 May 2024  
**Unique Number** : 11044293 **Diagnosed** : 24 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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)