



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

Area

**[05W46063]**

Machine Id

**HITACHI PM061149**

Component

**Pump Drive**

Fluid

**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0211288</b>	JR0196081	JR0163018
Sample Date		Client Info		<b>12 Apr 2024</b>	21 Nov 2023	07 Mar 2023
Machine Age	hrs	Client Info		<b>3018</b>	2475	1936
Oil Age	hrs	Client Info		<b>1000</b>	539	1000
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	None	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>21</b>	23	21
Iron	ppm	ASTM D5185m	>500	<b>77</b>	22	59
Chromium	ppm	ASTM D5185m	>15	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>9</b>	2	2
Lead	ppm	ASTM D5185m		<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>35	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

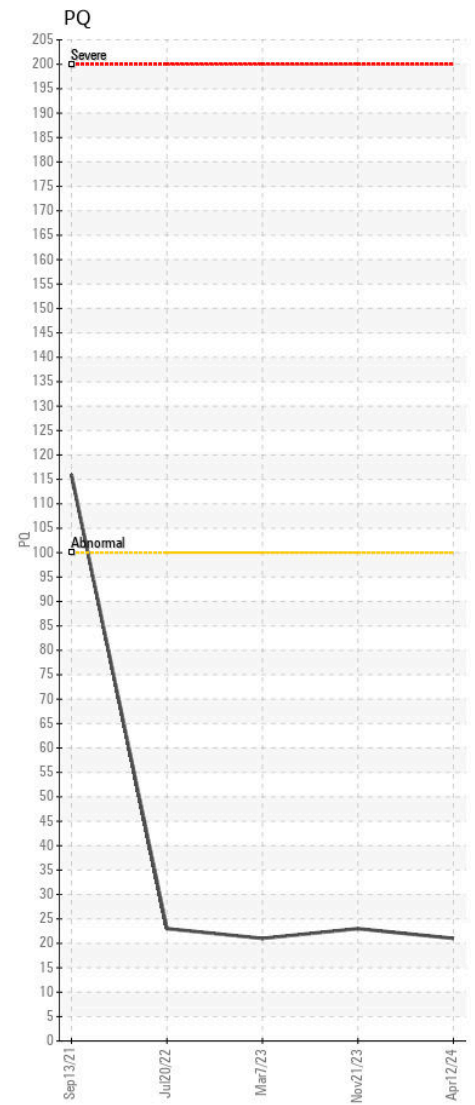
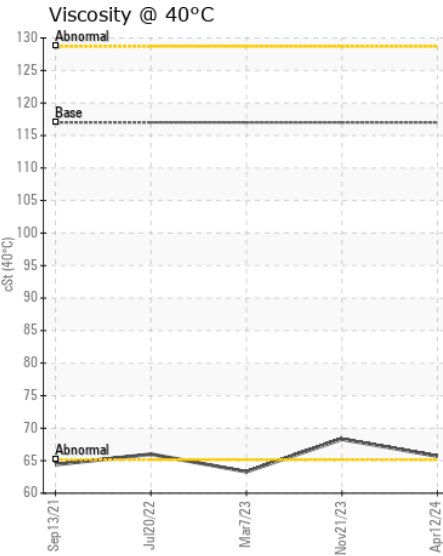
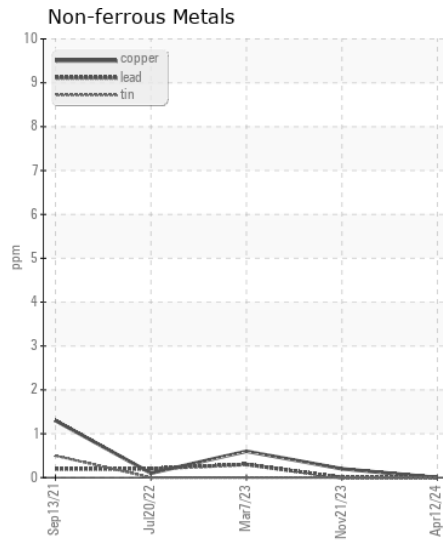
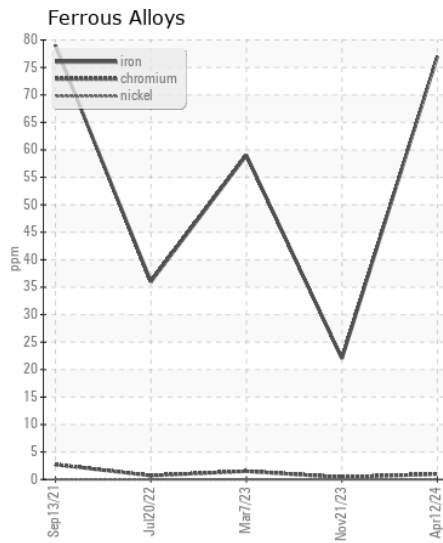
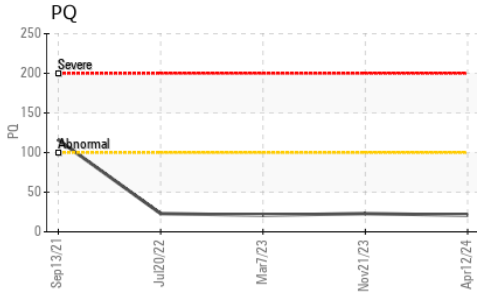
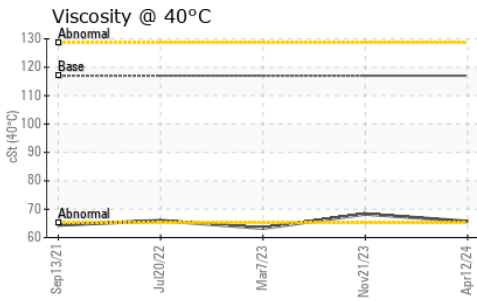
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>54</b>	15	27
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	0	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>1</b>	2	3
Boron	ppm	ASTM D5185m		<b>288</b>	308	262
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>257</b>	247	231
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	3
Magnesium	ppm	ASTM D5185m		<b>793</b>	796	742
Calcium	ppm	ASTM D5185m		<b>1534</b>	1449	1580
Phosphorus	ppm	ASTM D5185m		<b>1109</b>	901	888
Zinc	ppm	ASTM D5185m		<b>1143</b>	1086	1004
Sulfur	ppm	ASTM D5185m		<b>4005</b>	3349	4014
Visc @ 40°C	cSt	ASTM D445	117	<b>65.7</b>	68.3	63.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0211288 **Received** : 16 Apr 2024  
**Lab Number** : 06151320 **Tested** : 18 Apr 2024  
**Unique Number** : 10981398 **Diagnosed** : 18 Apr 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**FITZGERALD EXCAVATING**  
 PO BOX 2168  
 WINCHESTER, VA  
 US 22604  
 Contact: Service Manager

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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F: