



OIL ANALYSIS REPORT

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

Area

[W15336]

Machine Id

HITACHI 1FFDC571ELF340844

Component

Pump Drive

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196347	JR0173318	JR0082587
Sample Date		Client Info		15 Jan 2024	31 May 2023	30 Mar 2021
Machine Age	hrs	Client Info		3555	2653	460
Oil Age	hrs	Client Info		1000	2653	460
Filter Age	hrs	Client Info		1000	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	N/A	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		17	18	21
Iron	ppm	ASTM D5185m	>500	144	105	44
Chromium	ppm	ASTM D5185m	>15	1	2	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m		0	0	4
Aluminum	ppm	ASTM D5185m	>20	4	<1	0
Lead	ppm	ASTM D5185m		0	<1	<1
Copper	ppm	ASTM D5185m	>35	<1	2	2
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

**CONTAMINATION**

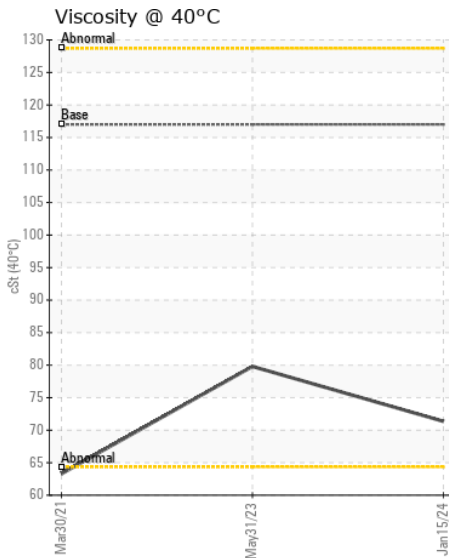
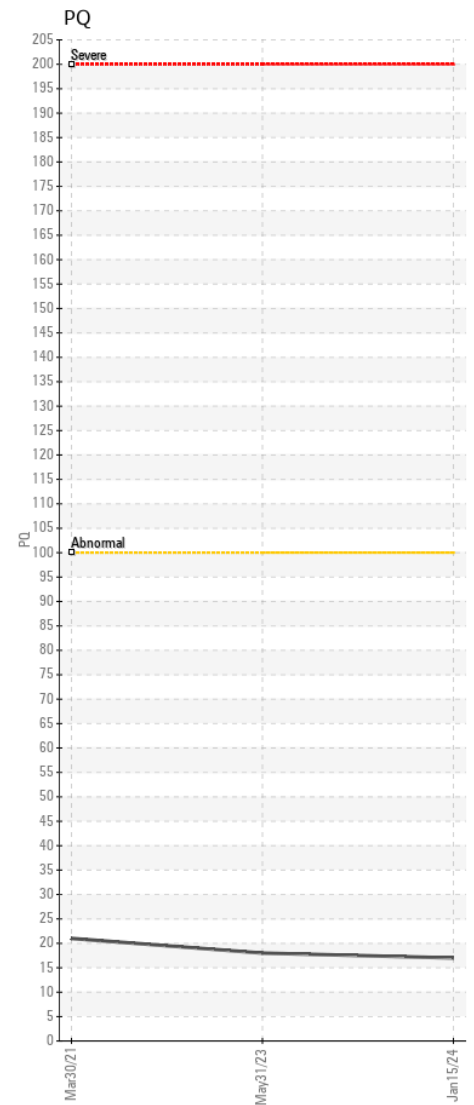
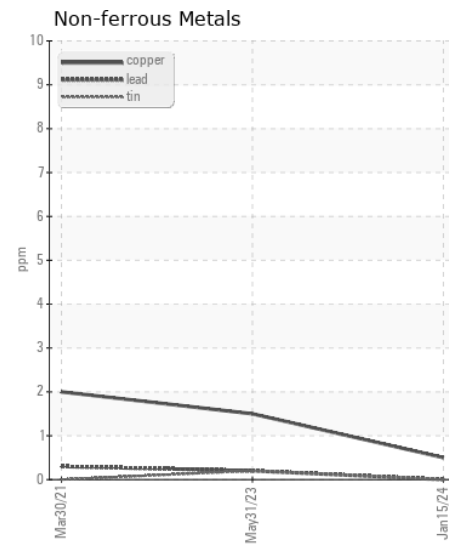
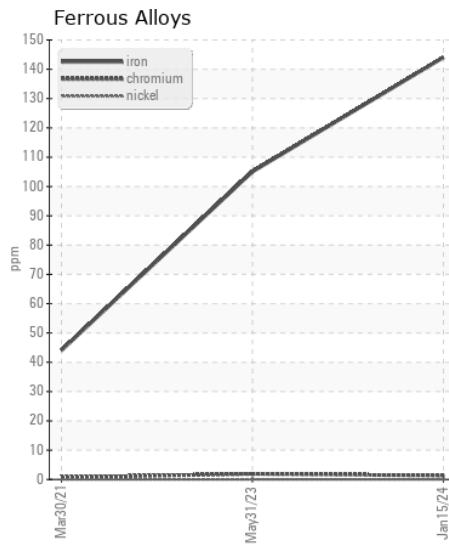
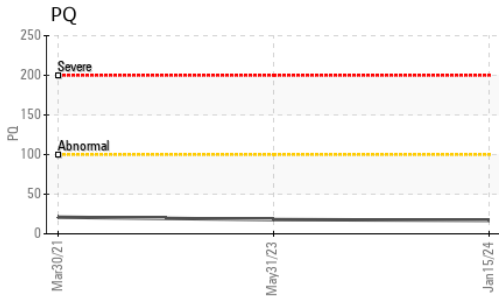
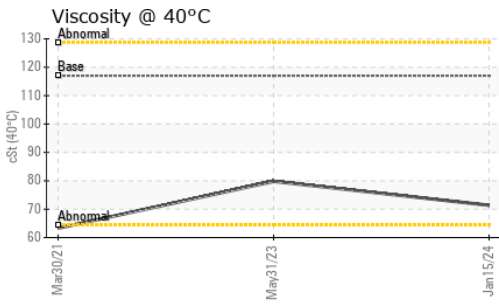
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	38	18	17
Potassium	ppm	ASTM D5185m	>20	0	1	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		3	3	3
Boron	ppm	ASTM D5185m		283	41	69
Barium	ppm	ASTM D5185m		0	0	5
Molybdenum	ppm	ASTM D5185m		234	71	110
Manganese	ppm	ASTM D5185m		1	2	1
Magnesium	ppm	ASTM D5185m		770	9	15
Calcium	ppm	ASTM D5185m		1470	2855	3996
Phosphorus	ppm	ASTM D5185m		952	902	1138
Zinc	ppm	ASTM D5185m		1008	938	1318
Sulfur	ppm	ASTM D5185m		3810	9963	6506
Visc @ 40°C	cSt	ASTM D445	117	71.36	79.8	63.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0196347 **Received** : 17 Jan 2024  
**Lab Number** : 06063027 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834409 **Diagnostician** : Doug Bogart  
**Test Package** : CONST ( Additional Tests: PQ )

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)

**JRE - CASTLE HAYNE**  
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