



Area

[16W15833]

Machine Id

JOHN DEERE 350P 1FF350PALPF000976

Component

Pump Drive

Fluid

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

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: 16W15833)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207021	JR0202562	JR0194084
Sample Date		Client Info		19 Mar 2024	15 Feb 2024	18 Dec 2023
Machine Age	hrs	Client Info		1991	1609	1031
Oil Age	hrs	Client Info		960	578	1031
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		N/A	None	N/A
Sample Status				ATTENTION	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		15	27	11
Iron	ppm	ASTM D5185m	>151	95	45	61
Chromium	ppm	ASTM D5185m	>11	<1	<1	2
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	3	2	2
Lead	ppm	ASTM D5185m	>51	0	0	<1
Copper	ppm	ASTM D5185m	>51	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

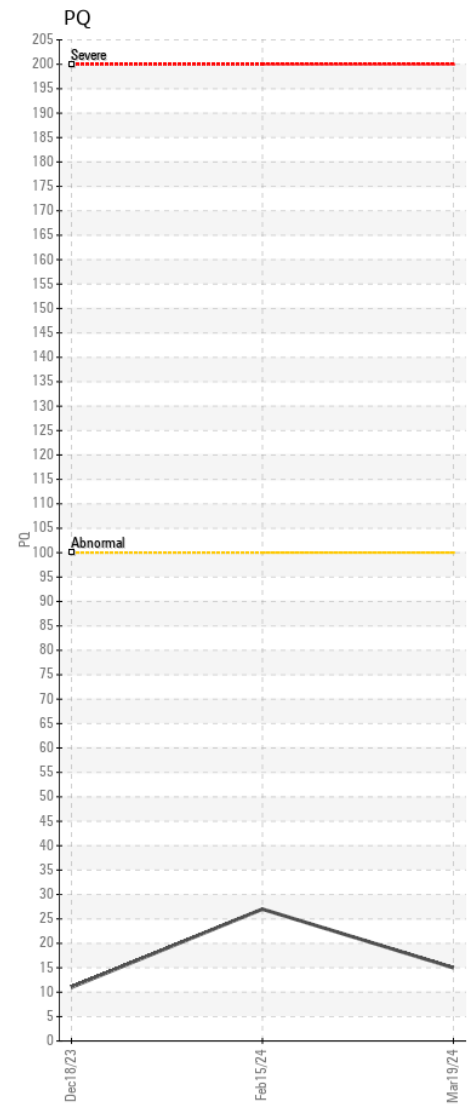
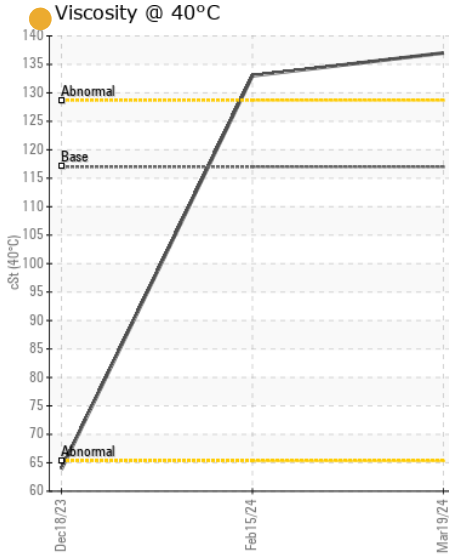
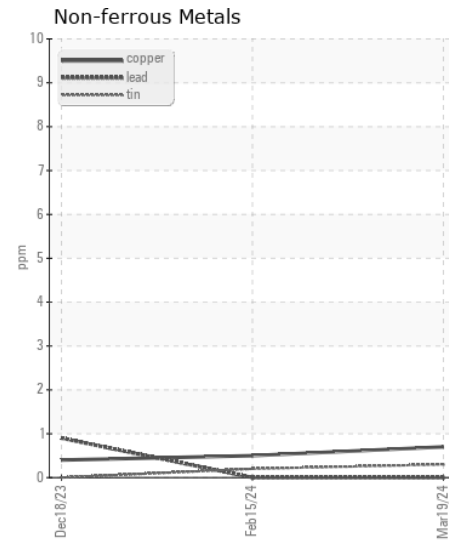
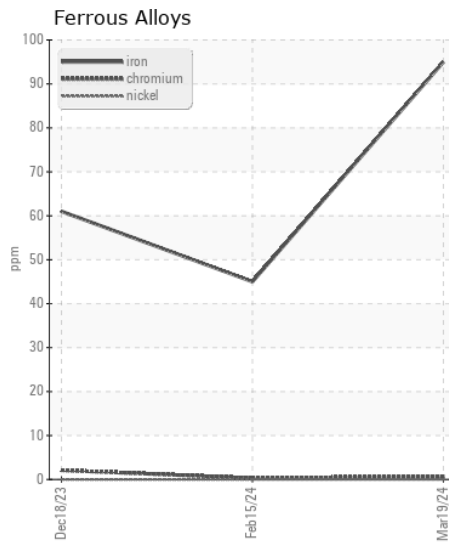
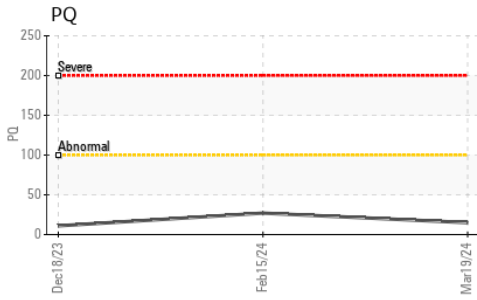
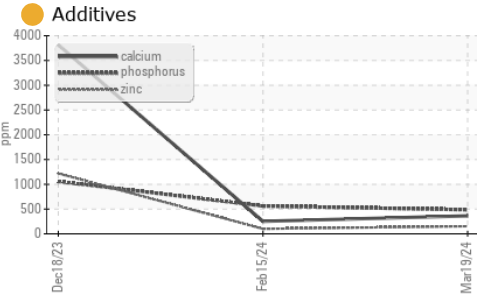
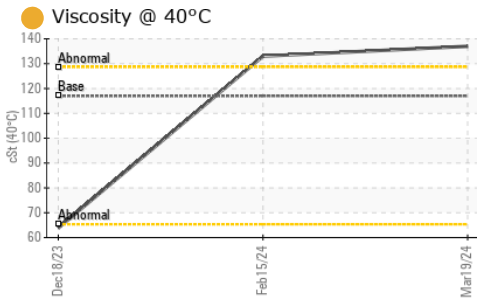
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	24	23	▲ 56
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water		WC Method	>0.1	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>51	0	0	2
Boron	ppm	ASTM D5185m		● 4	● 4	● 62
Barium	ppm	ASTM D5185m		● 4	● 12	● 0
Molybdenum	ppm	ASTM D5185m		● 6	● 6	● 100
Manganese	ppm	ASTM D5185m		● 4	● 1	● 3
Magnesium	ppm	ASTM D5185m		● 6	● 7	● 0
Calcium	ppm	ASTM D5185m		● 363	● 252	● 3815
Phosphorus	ppm	ASTM D5185m		● 486	● 561	● 1056
Zinc	ppm	ASTM D5185m		● 153	● 100	● 1219
Sulfur	ppm	ASTM D5185m		● 11500	● 13266	● 7285
Visc @ 40°C	cSt	ASTM D445	117	● 137	● 133	● 63.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207021 **Received** : 21 Mar 2024
Lab Number : 06125150 **Tested** : 25 Mar 2024
Unique Number : 10939301 **Diagnosed** : 25 Mar 2024 - Sean Felton
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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