



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[16W14501]

Machine Id

JOHN DEERE 350P 1FF350PAHNF000460

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 16W14501)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0173478	JR0173349	---
Sample Date		Client Info		20 Sep 2023	10 Jul 2023	---
Machine Age	hrs	Client Info		1055	550	---
Oil Age	hrs	Client Info		505	550	---
Filter Age	hrs	Client Info		505	550	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	29	44	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	2	5	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>31	4	5	---
Lead	ppm	ASTM D5185m	>26	<1	2	---
Copper	ppm	ASTM D5185m	>26	▲ 47	▲ 98	---
Tin	ppm	ASTM D5185m	>4	2	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

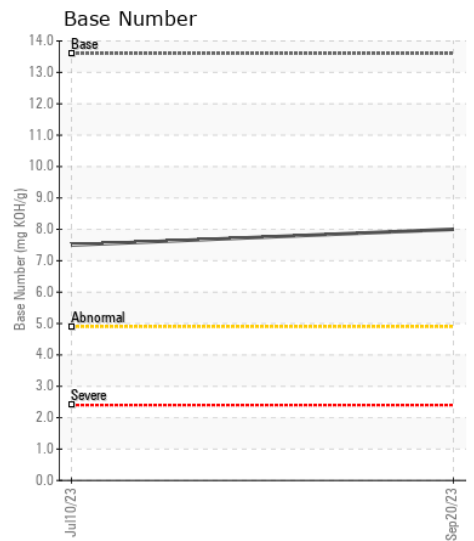
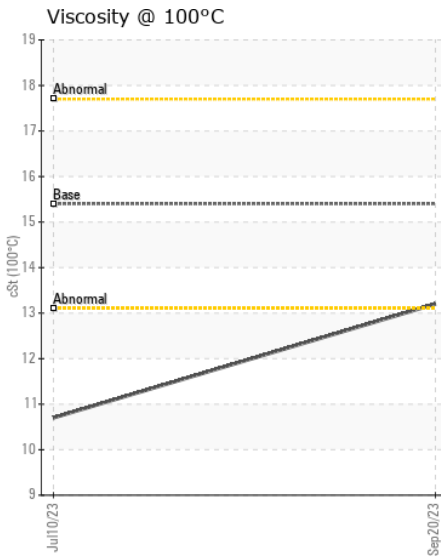
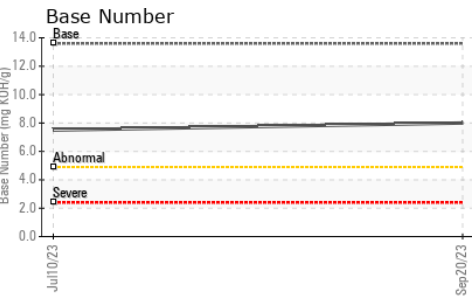
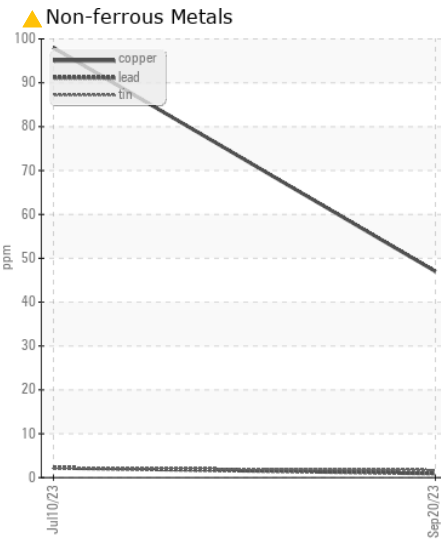
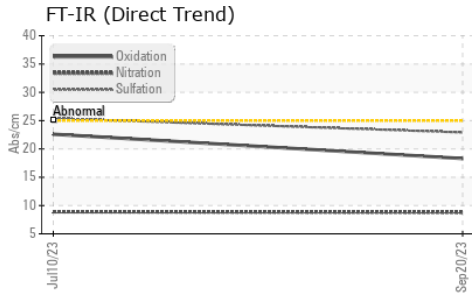
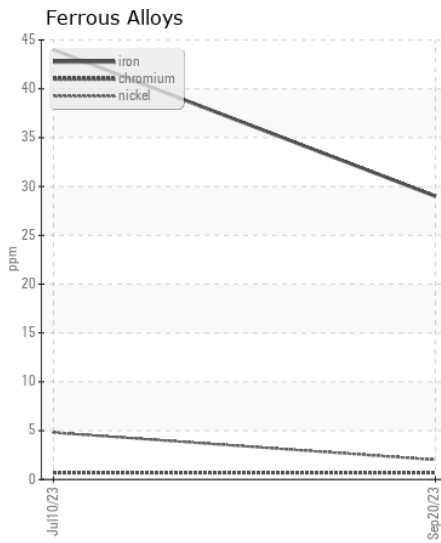
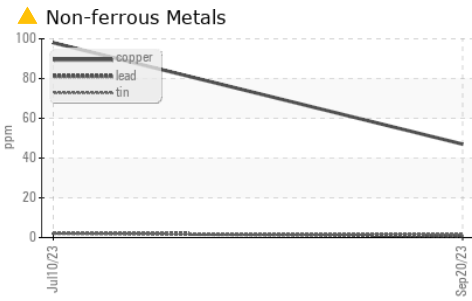
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	9	12	---
Potassium	ppm	ASTM D5185m	>20	3	10	---
Fuel		WC Method	>2.1	<1.0	0.4	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	25.4	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	3	2	---
Boron	ppm	ASTM D5185m		206	162	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		279	245	---
Manganese	ppm	ASTM D5185m		1	2	---
Magnesium	ppm	ASTM D5185m		948	735	---
Calcium	ppm	ASTM D5185m		1635	1410	---
Phosphorus	ppm	ASTM D5185m		949	800	---
Zinc	ppm	ASTM D5185m		1210	1005	---
Sulfur	ppm	ASTM D5185m		3774	2933	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	22.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.0	7.5	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	10.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0173478
Lab Number : 05958485
Unique Number : 10659698
Test Package : CONST (Additional Tests: TBN)

JRE - CASTLE HAYNE
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 US 28429-5819
 Contact: WILMINGTON SHOP
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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)