



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 460P 1DW460PALPFB07170
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0222002	JR0202395	---
Sample Date		Client Info		14 Jun 2024	05 Mar 2024	---
Machine Age	hrs	Client Info		1467	1001	---
Oil Age	hrs	Client Info		466	549	---
Filter Age	hrs	Client Info		466	549	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ATTENTION	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	38	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	5	5	---
Lead	ppm	ASTM D5185m	>40	6	14	---
Copper	ppm	ASTM D5185m	>330	46	228	---
Tin	ppm	ASTM D5185m	>15	4	8	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

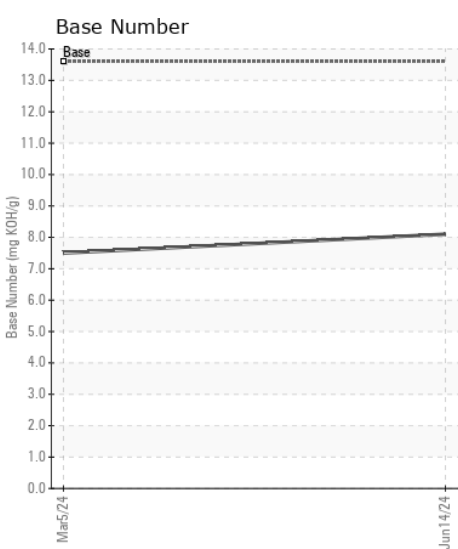
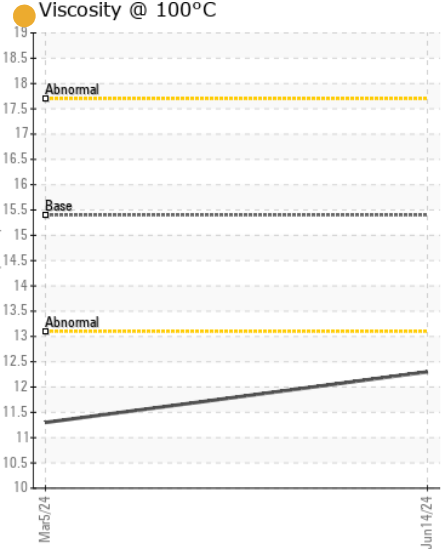
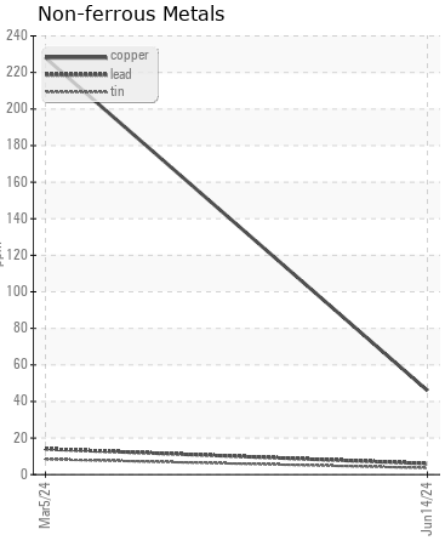
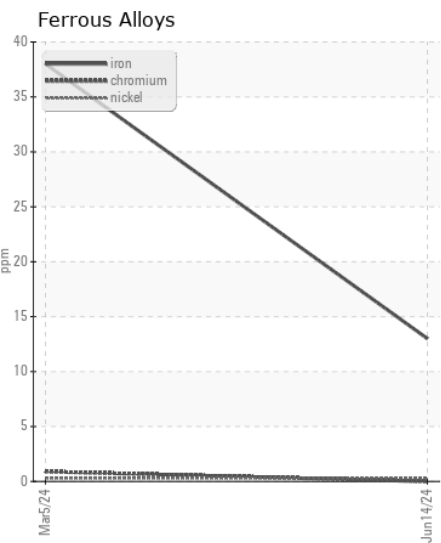
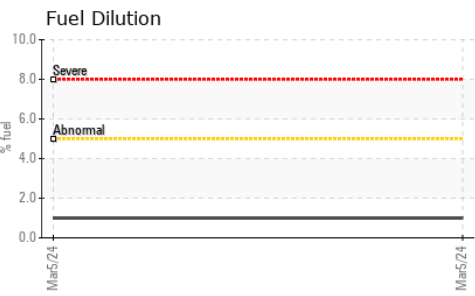
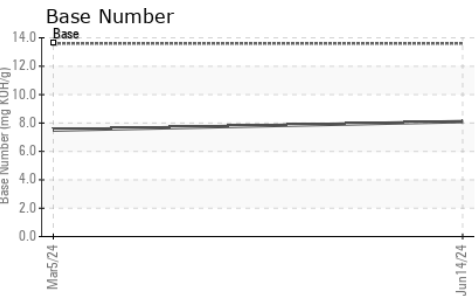
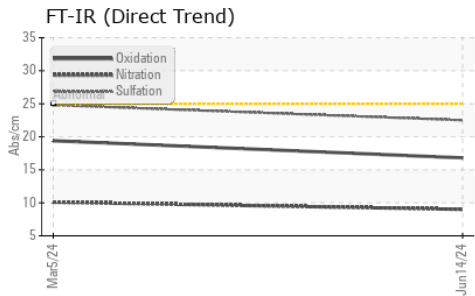
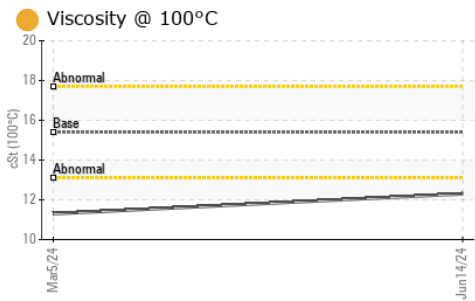
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	9	---
Potassium	ppm	ASTM D5185m	>20	14	3	---
Fuel	%	ASTM D3524	>5	<1.0	1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	9.0	10.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	24.8	---
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	>0.2	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		6	9	---
Boron	ppm	ASTM D5185m		158	95	---
Barium	ppm	ASTM D5185m		0	2	---
Molybdenum	ppm	ASTM D5185m		242	281	---
Manganese	ppm	ASTM D5185m		2	6	---
Magnesium	ppm	ASTM D5185m		800	949	---
Calcium	ppm	ASTM D5185m		1452	1638	---
Phosphorus	ppm	ASTM D5185m		910	950	---
Zinc	ppm	ASTM D5185m		1062	1189	---
Sulfur	ppm	ASTM D5185m		3414	3092	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	19.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.1	7.5	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	11.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222002 **Received** : 18 Jun 2024
Lab Number : 06213326 **Tested** : 19 Jun 2024
Unique Number : 11086190 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: FuelDilution, TBN)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

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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