



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W51962 HENDERSON]

Machine Id
JOHN DEERE 350P 1FF350PAVNF000390

Component
Diesel Engine

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		JR0211610	JR0164459	---
Sample Date		Client Info		23 May 2024	19 May 2023	---
Machine Age	hrs	Client Info		968	470	---
Oil Age	hrs	Client Info		0	470	---
Filter Age	hrs	Client Info		0	470	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	39	41	---
Chromium	ppm	ASTM D5185m	>11	2	<1	---
Nickel	ppm	ASTM D5185m	>5	20	6	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	2	0	---
Aluminum	ppm	ASTM D5185m	>31	6	4	---
Lead	ppm	ASTM D5185m	>26	2	3	---
Copper	ppm	ASTM D5185m	>26	50	▲ 119	---
Tin	ppm	ASTM D5185m	>4	2	3	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

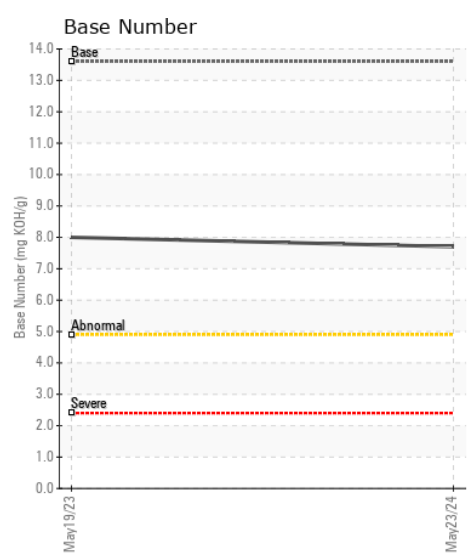
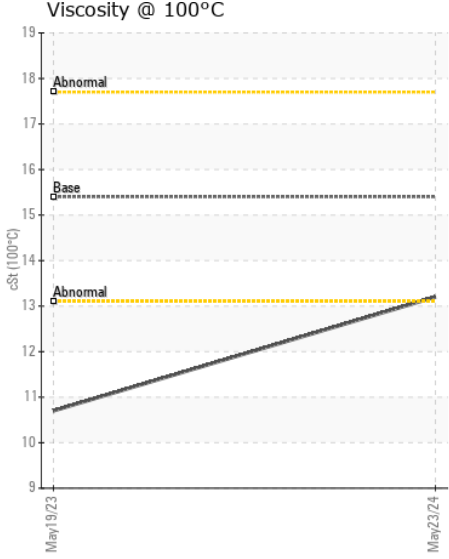
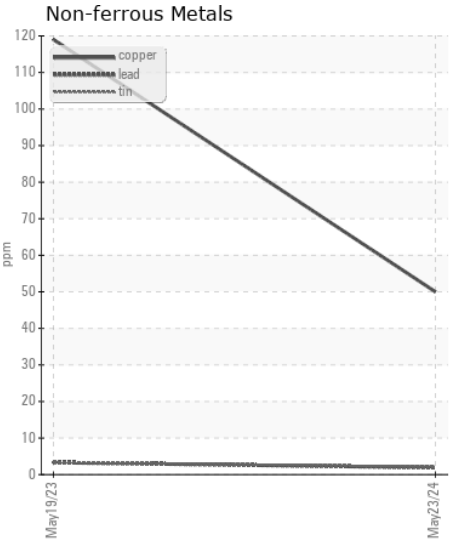
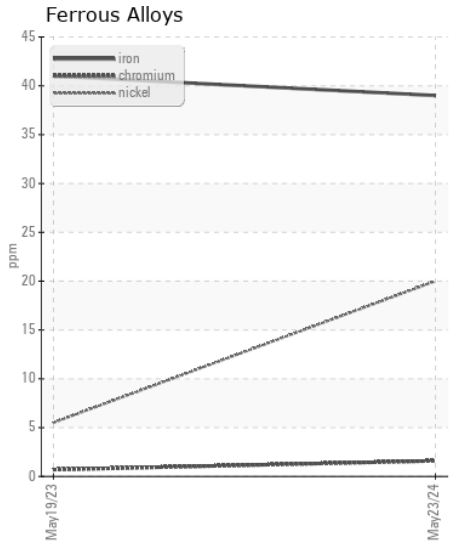
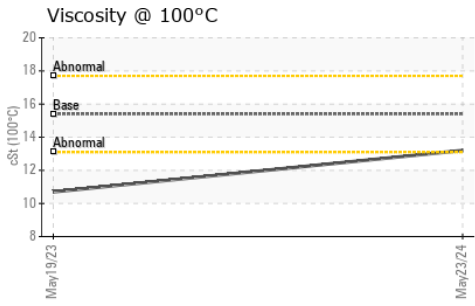
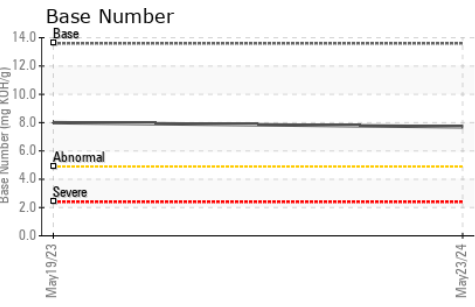
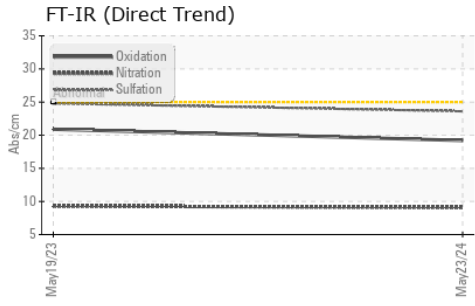
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	10	11	---
Potassium	ppm	ASTM D5185m	>20	4	7	---
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	9.1	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	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	>0.21	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	5	---
Boron	ppm	ASTM D5185m		171	205	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		250	238	---
Manganese	ppm	ASTM D5185m		2	2	---
Magnesium	ppm	ASTM D5185m		801	790	---
Calcium	ppm	ASTM D5185m		1400	1414	---
Phosphorus	ppm	ASTM D5185m		798	815	---
Zinc	ppm	ASTM D5185m		1021	1030	---
Sulfur	ppm	ASTM D5185m		2877	2851	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	20.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7	8.0	---
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. : JR0211610 **Received** : 28 May 2024
Lab Number : 06191981 **Tested** : 29 May 2024
Unique Number : 11048733 **Diagnosed** : 29 May 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com
 T: (804)798-6001
 F: (804)798-0292

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)