



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[WESTFIELD FARM LLC]

Machine Id

JOHN DEERE 5090M 1LV5090MJKK401336

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		JR0196779	JR0170205	---
Sample Date		Client Info		24 Jun 2024	07 Jun 2023	---
Machine Age	hrs	Client Info		2567	2167	---
Oil Age	hrs	Client Info		405	0	---
Filter Age	hrs	Client Info		405	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	9	10	---
Chromium	ppm	ASTM D5185m	>11	0	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	7	5	---
Lead	ppm	ASTM D5185m	>26	21	21	---
Copper	ppm	ASTM D5185m	>26	1	3	---
Tin	ppm	ASTM D5185m	>4	<1	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

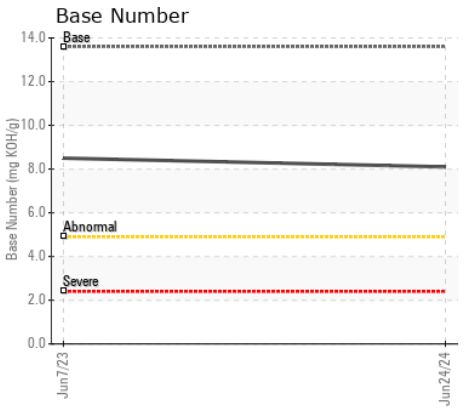
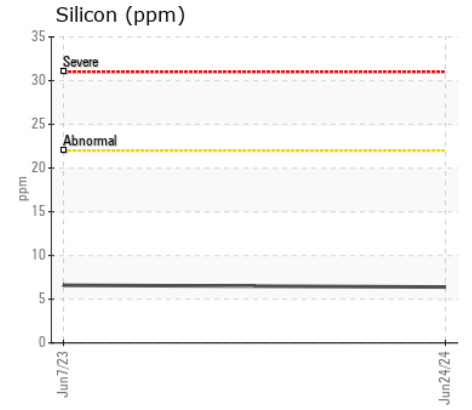
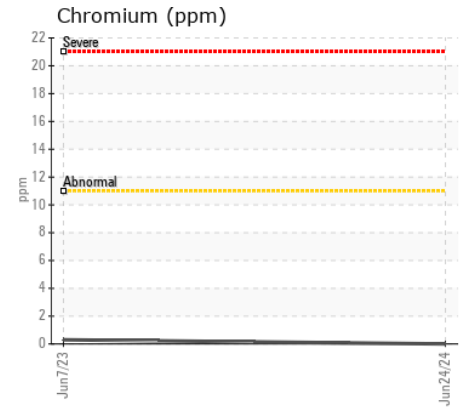
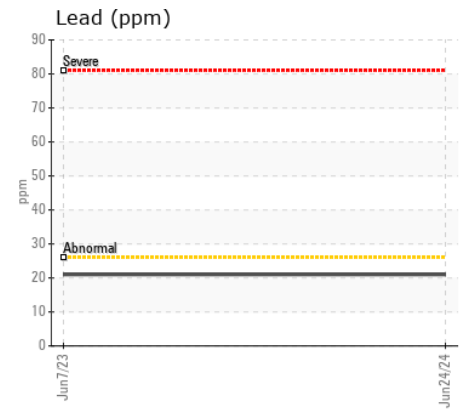
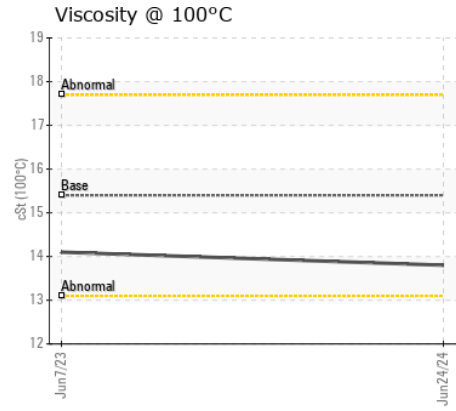
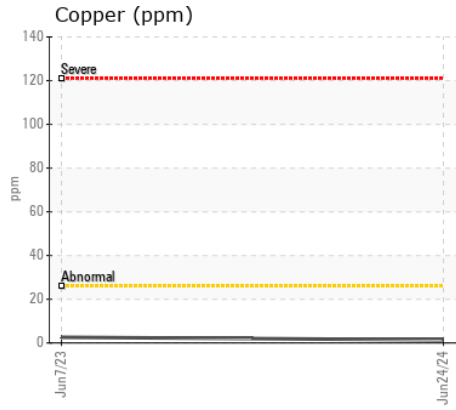
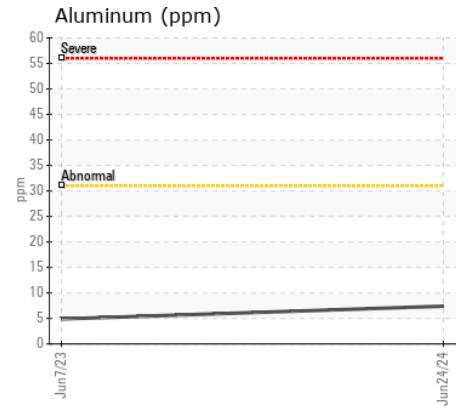
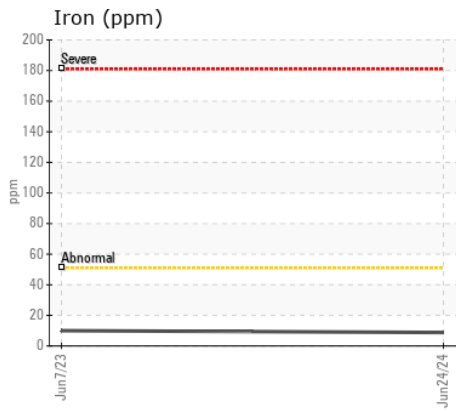
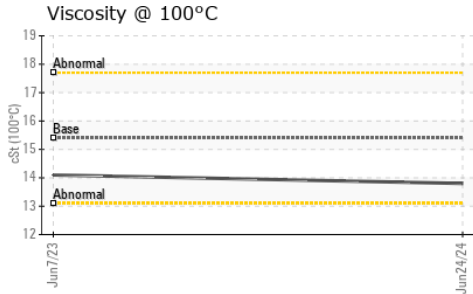
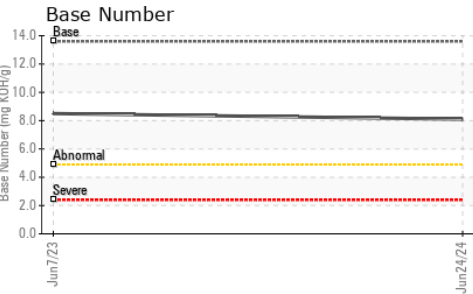
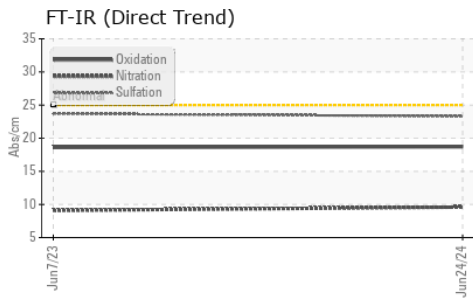
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	6	7	---
Potassium	ppm	ASTM D5185m	>20	12	10	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	23.7	---
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	2	1	---
Boron	ppm	ASTM D5185m		186	124	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		253	211	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		914	710	---
Calcium	ppm	ASTM D5185m		1549	1426	---
Phosphorus	ppm	ASTM D5185m		967	905	---
Zinc	ppm	ASTM D5185m		1175	1114	---
Sulfur	ppm	ASTM D5185m		3781	3278	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	18.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.1	8.5	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0196779

Lab Number : 06228250

Unique Number : 11111743

Test Package : MOBCE (Additional Tests: TBN)

Received : 05 Jul 2024

Tested : 08 Jul 2024

Diagnosed : 08 Jul 2024 - Wes Davis

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 - EDINBURG

601 NORTH MAIN ST

WOODSTOCK, VA

US 22664

Contact: MIKE SECHLER

MSECHLER@JAMESRIVEREQUIPMENT.COM

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F: