



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W09149]

Machine Id

JOHN DEERE 1025R 1LV1025REMM818031

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		JR0204499	JR0151556	---
Sample Date		Client Info		04 Jun 2024	17 Mar 2023	---
Machine Age	hrs	Client Info		123	87	---
Oil Age	hrs	Client Info		123	0	---
Filter Age	hrs	Client Info		123	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	4	12	---
Chromium	ppm	ASTM D5185m	>11	0	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	5	4	---
Lead	ppm	ASTM D5185m	>26	1	<1	---
Copper	ppm	ASTM D5185m	>26	4	12	---
Tin	ppm	ASTM D5185m	>4	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

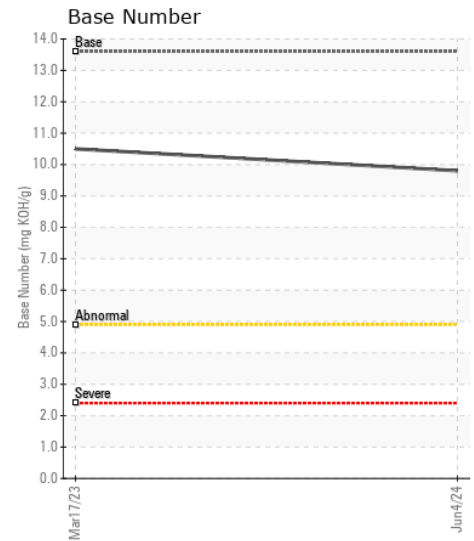
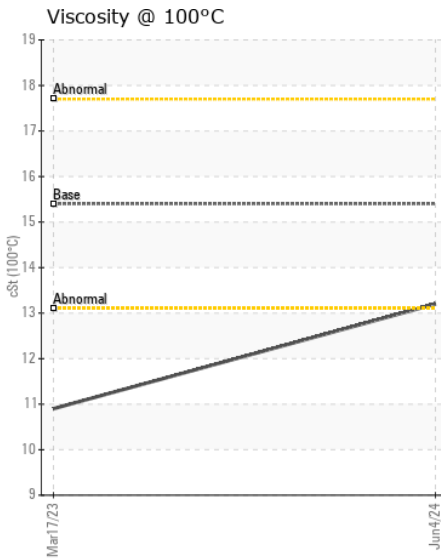
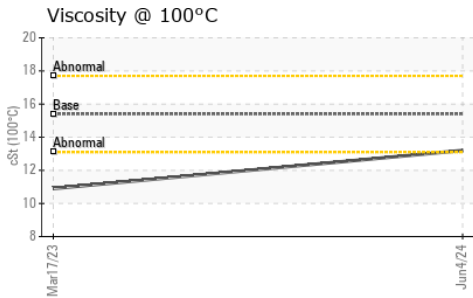
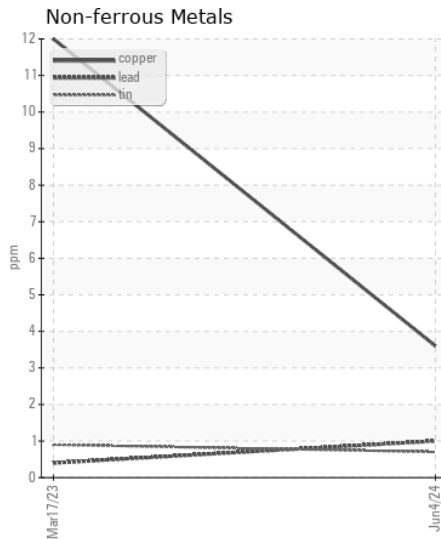
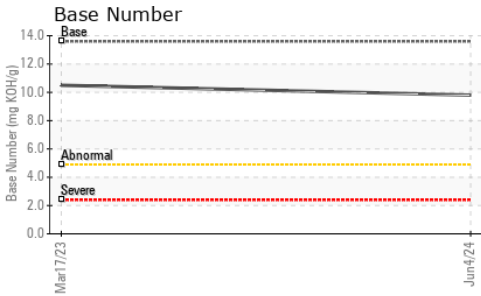
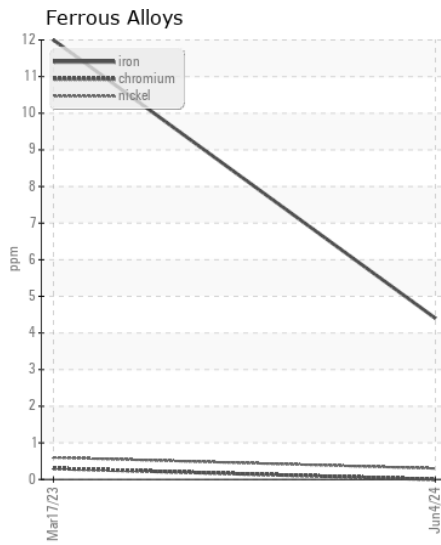
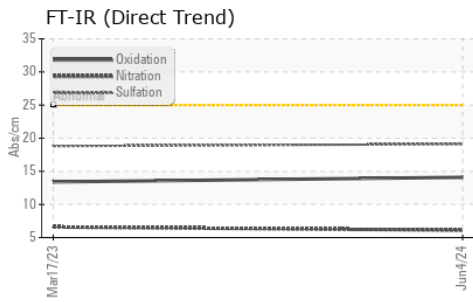
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	34	▲ 83	---
Potassium	ppm	ASTM D5185m	>20	4	4	---
Fuel		WC Method	>2.1	<1.0	1.2	---
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	6.1	6.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	18.8	---
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	4	9	---
Boron	ppm	ASTM D5185m		259	217	---
Barium	ppm	ASTM D5185m		<1	1	---
Molybdenum	ppm	ASTM D5185m		238	199	---
Manganese	ppm	ASTM D5185m		1	2	---
Magnesium	ppm	ASTM D5185m		827	553	---
Calcium	ppm	ASTM D5185m		1460	1864	---
Phosphorus	ppm	ASTM D5185m		965	819	---
Zinc	ppm	ASTM D5185m		1086	970	---
Sulfur	ppm	ASTM D5185m		3724	3334	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.8	10.5	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	● 10.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204499 **Received** : 18 Jun 2024
Lab Number : 06213314 **Tested** : 19 Jun 2024
Unique Number : 11086178 **Diagnosed** : 19 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

JRE - NEWTON
 2616 NW BLVD
 NEWTON, NC
 US 28658

Contact: J DEMAS
 jdemas@jamesriverequipment.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (828)322-4300

* - 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)

F: