



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W8880]

Machine Id

8" pump (S/N Pe404n030683)

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W8880)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196968	JR0183282	---
Sample Date		Client Info		10 May 2024	11 Jan 2024	---
Machine Age	hrs	Client Info		1074	539	---
Oil Age	hrs	Client Info		535	539	---
Filter Age	hrs	Client Info		535	539	---
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	>100	40	10	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	11	3	---
Lead	ppm	ASTM D5185m	>40	5	<1	---
Copper	ppm	ASTM D5185m	>330	8	2	---
Tin	ppm	ASTM D5185m	>15	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

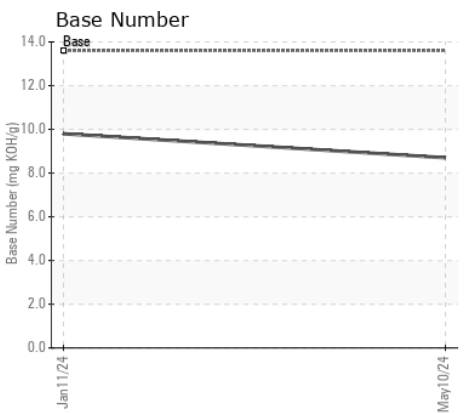
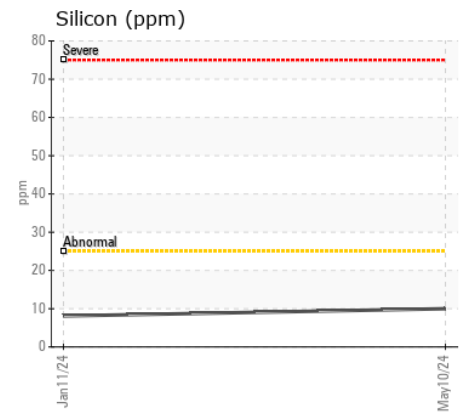
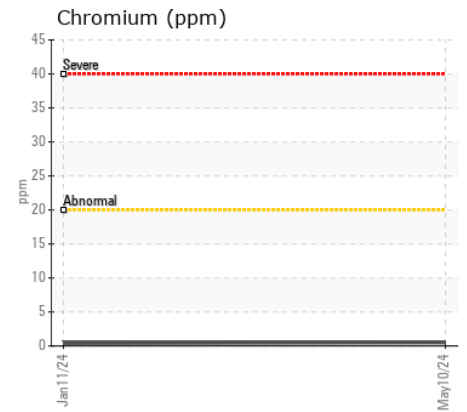
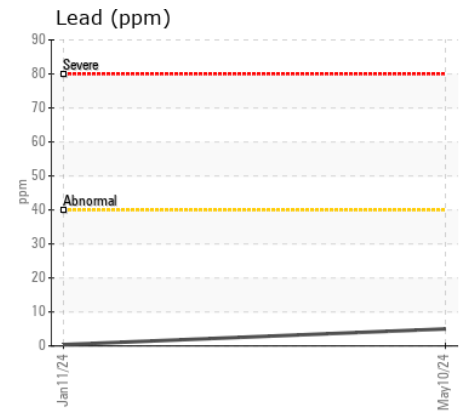
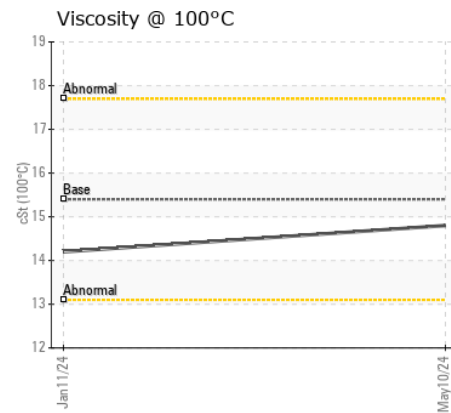
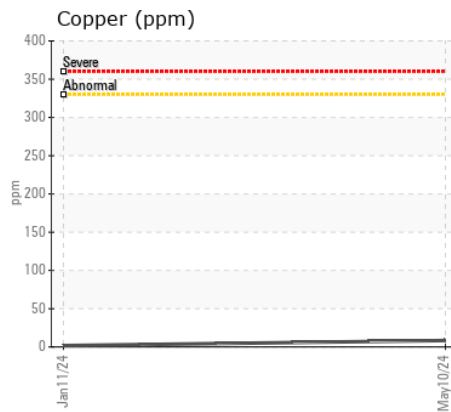
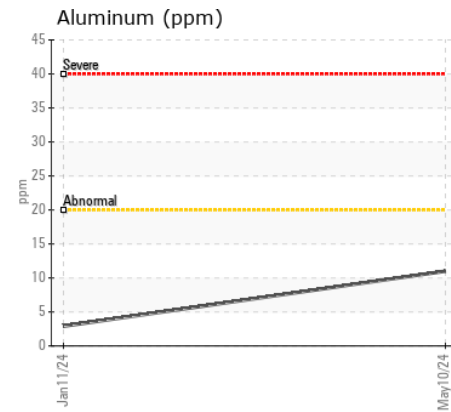
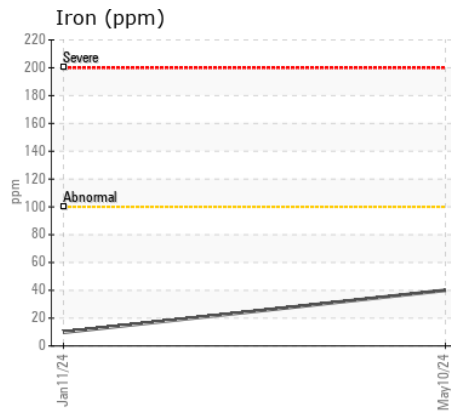
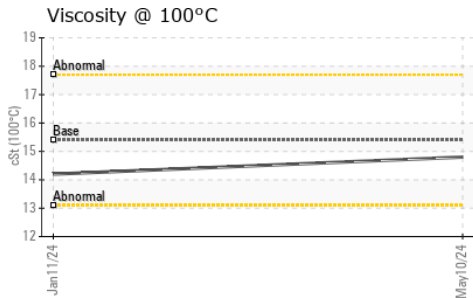
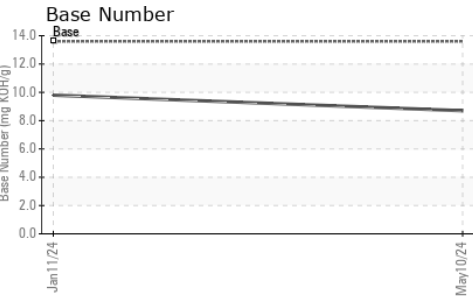
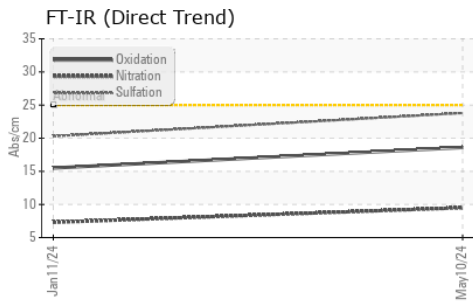
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	8	---
Potassium	ppm	ASTM D5185m	>20	24	4	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.7	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	9.5	7.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	20.3	---
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 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		2	<1	---
Boron	ppm	ASTM D5185m		235	246	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		263	225	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		823	828	---
Calcium	ppm	ASTM D5185m		1427	1334	---
Phosphorus	ppm	ASTM D5185m		933	918	---
Zinc	ppm	ASTM D5185m		1140	1074	---
Sulfur	ppm	ASTM D5185m		3239	3082	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	15.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.7	9.8	---
Visc @ 100°C	cSt	ASTM D445	15.4	14.8	14.2	---



Certificate L2367

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

Sample No. : JR0196968

Lab Number : 06178517

Unique Number : 11029843

Test Package : MOBCE (Additional Tests: TBN)

Received : 14 May 2024

Tested : 15 May 2024

Diagnosed : 16 May 2024 - Sean Felton

JRE - HOPE MILLS/FAYETTEVILLE

5039 HWY 301 SOUTH

HOPE MILLS, NC

US 28348

Contact: FAYETTEVILLE SHOP

stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com

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)

T:

F: