



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 50G 1FF050GXAKH291948
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (9 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212168	JR0136979	---
Sample Date		Client Info		28 May 2024	12 Jul 2022	---
Machine Age	hrs	Client Info		2377	1896	---
Oil Age	hrs	Client Info		500	1896	---
Filter Age	hrs	Client Info		500	1896	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	12	---	---
Iron	ppm	ASTM D5185m	>51	14	15	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>31	6	4	---
Lead	ppm	ASTM D5185m	>26	1	2	---
Copper	ppm	ASTM D5185m	>26	1	1	---
Tin	ppm	ASTM D5185m	>4	<1	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

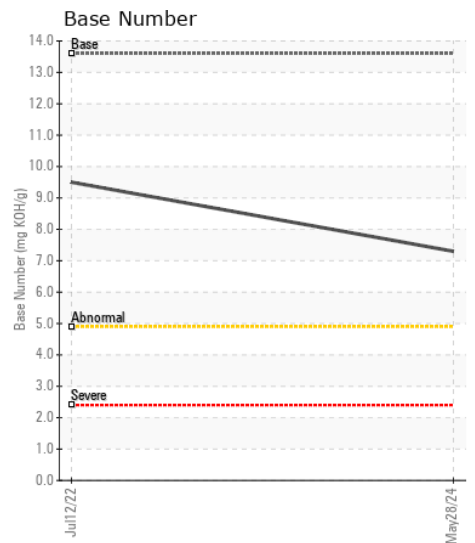
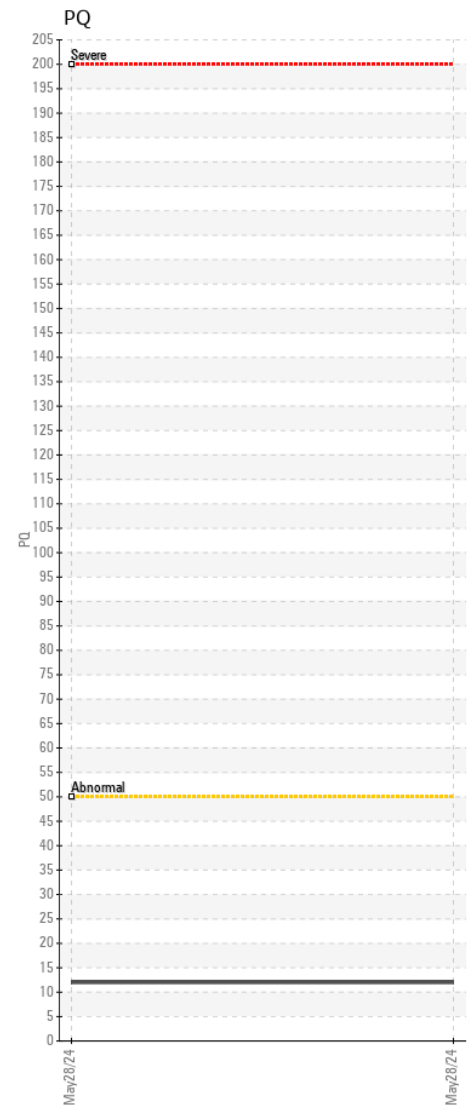
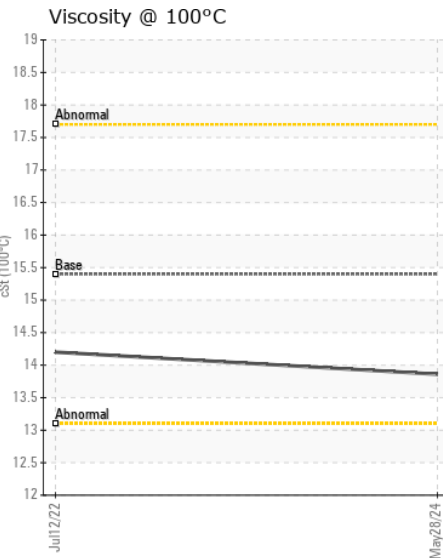
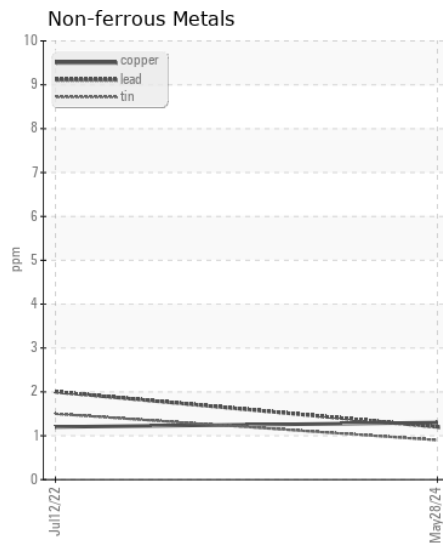
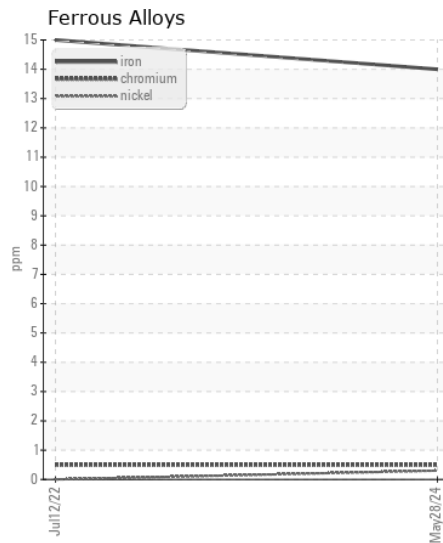
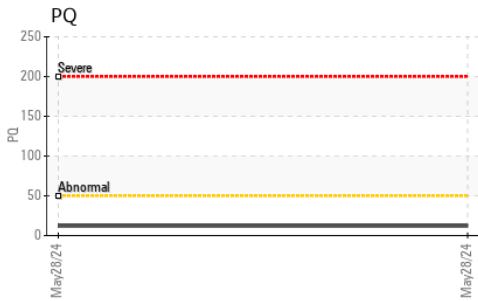
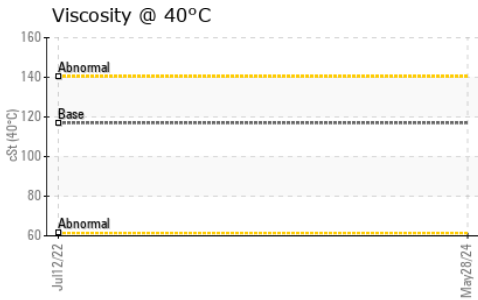
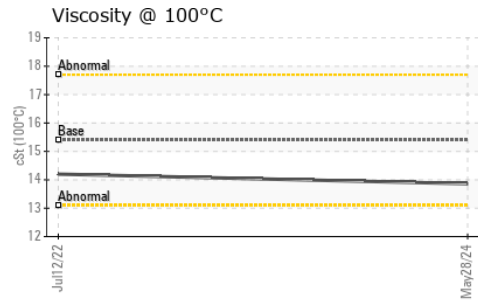
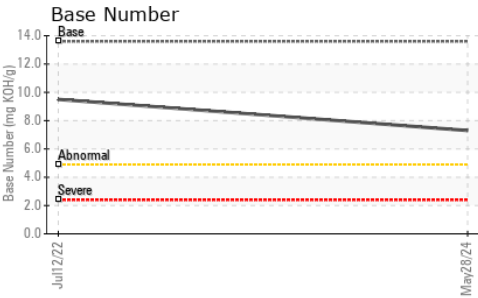
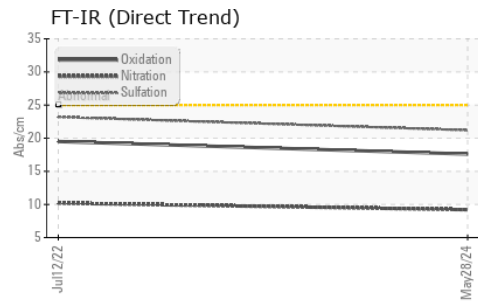
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	13	15	---
Potassium	ppm	ASTM D5185m	>20	2	4	---
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	0.2	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	9.2	10.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	23.2	---
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	1	2	---
Boron	ppm	ASTM D5185m		245	248	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		248	267	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		772	865	---
Calcium	ppm	ASTM D5185m		1385	1603	---
Phosphorus	ppm	ASTM D5185m		900	947	---
Zinc	ppm	ASTM D5185m		1043	1163	---
Sulfur	ppm	ASTM D5185m		2938	3797	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	19.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.3	9.5	---
Visc @ 40°C	cSt	ASTM D445	117	105	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.86	14.2	---
Viscosity Index (VI)	Scale	ASTM D2270	139	132	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212168 **Received** : 29 May 2024
Lab Number : 06194707 **Tested** : 03 Jun 2024
Unique Number : 11056830 **Diagnosed** : 03 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: KV40, PQ, TBN, VI)

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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