



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 35G 1FF035GXJJK285795

Component
Diesel Engine

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

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214277	JR0153423	---
Sample Date		Client Info		17 Apr 2024	04 Nov 2022	---
Machine Age	hrs	Client Info		1863	1397	---
Oil Age	hrs	Client Info		466	0	---
Filter Age	hrs	Client Info		466	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ATTENTION	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	16	24	---
Chromium	ppm	ASTM D5185m	>11	1	<1	---
Nickel	ppm	ASTM D5185m	>5	1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>31	5	2	---
Lead	ppm	ASTM D5185m	>26	2	<1	---
Copper	ppm	ASTM D5185m	>26	1	<1	---
Tin	ppm	ASTM D5185m	>4	1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

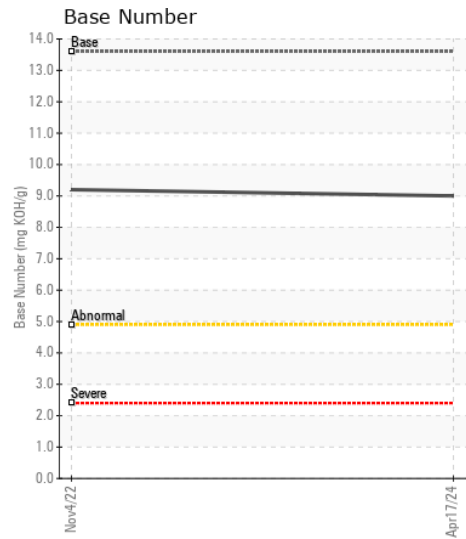
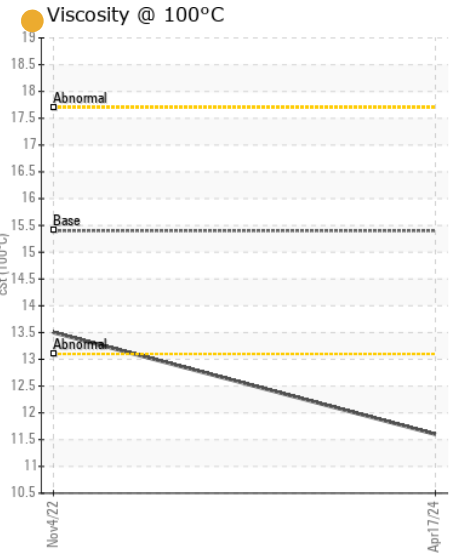
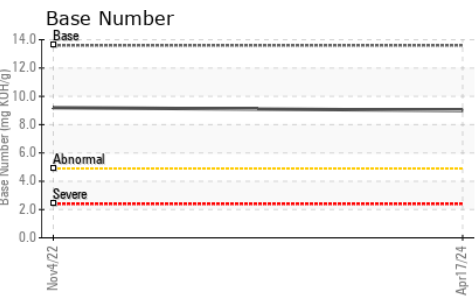
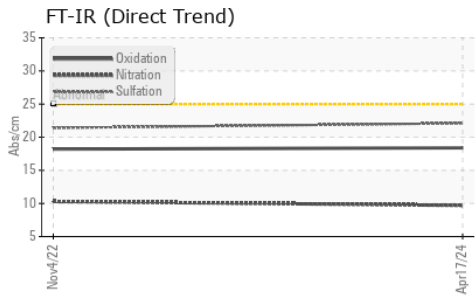
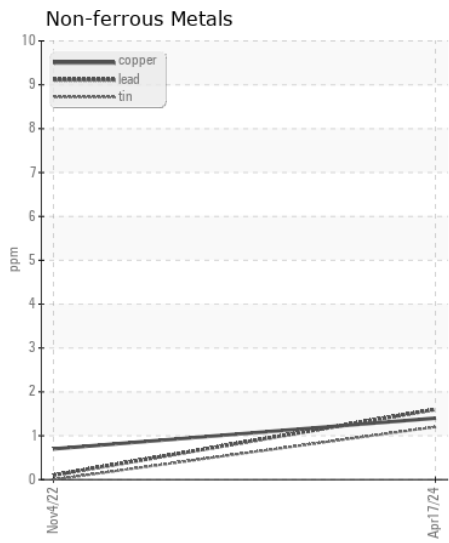
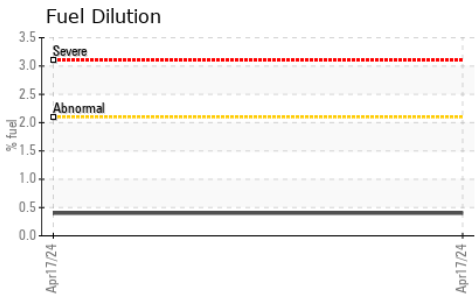
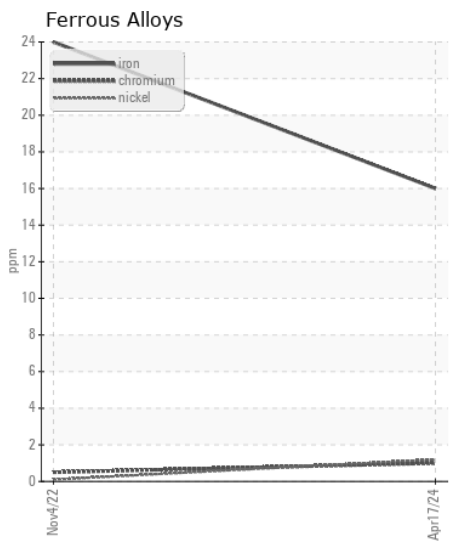
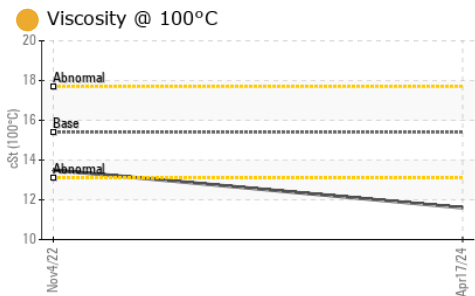
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	13	10	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Fuel	%	ASTM D3524	>2.1	0.4	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	9.7	10.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.4	---
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>31	<1	1	---
Boron	ppm	ASTM D5185m		262	77	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		255	55	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m		743	344	---
Calcium	ppm	ASTM D5185m		1409	1824	---
Phosphorus	ppm	ASTM D5185m		950	965	---
Zinc	ppm	ASTM D5185m		1057	1246	---
Sulfur	ppm	ASTM D5185m		3323	3578	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	18.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.0	9.2	---
Visc @ 100°C	cSt	ASTM D445	15.4	11.6	13.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214277 **Received** : 18 Apr 2024
Lab Number : 06152886 **Tested** : 23 Apr 2024
Unique Number : 10982964 **Diagnosed** : 23 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)