



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 844L 1DW844LXPNL715296

Component
Diesel Engine

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

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		WE0004675	WE0003121	---
Sample Date		Client Info		16 Oct 2023	25 Mar 2023	---
Machine Age	hrs	Client Info		1337	528	---
Oil Age	hrs	Client Info		0	528	---
Filter Age	hrs	Client Info		0	528	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>51	26	45	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	4	4	---
Lead	ppm	ASTM D5185m	>26	22	▲ 17	---
Copper	ppm	ASTM D5185m	>26	▲ 97	▲ 541	---
Tin	ppm	ASTM D5185m	>4	▲ 7	▲ 12	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

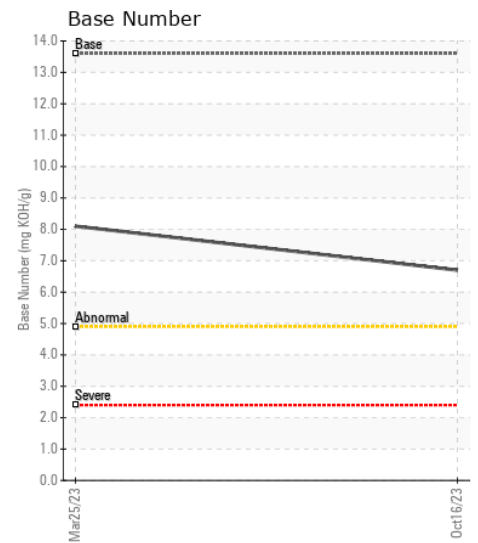
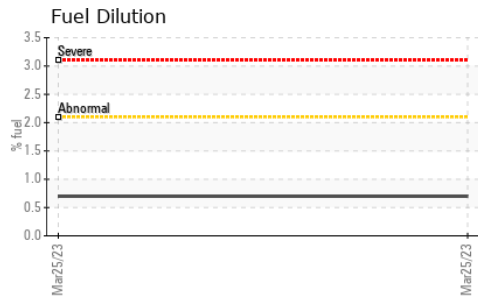
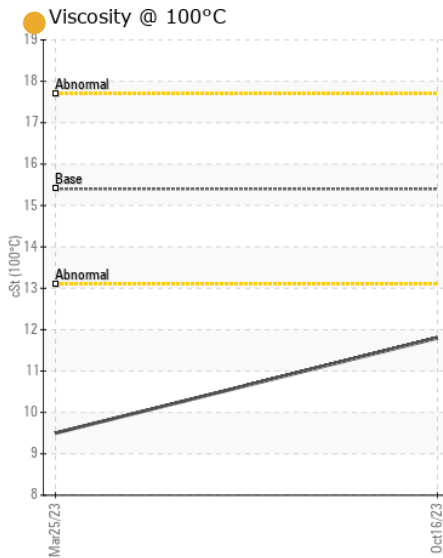
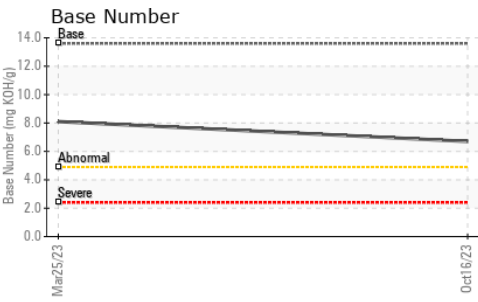
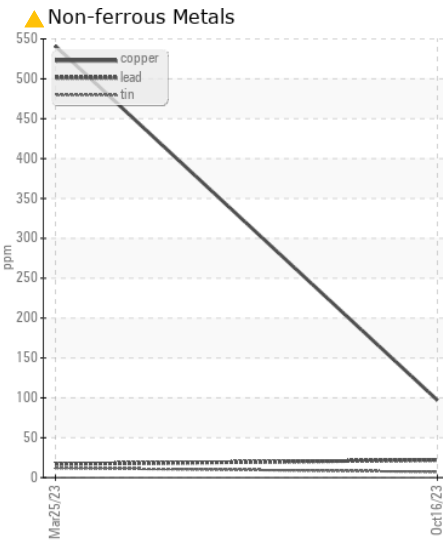
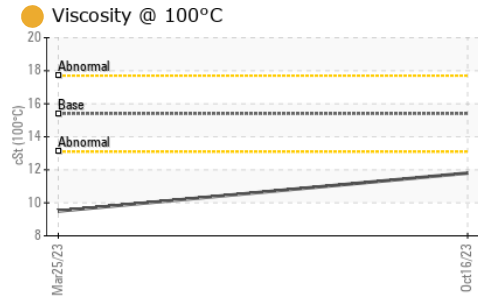
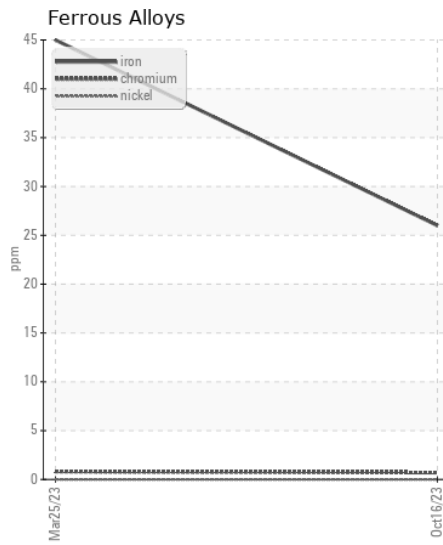
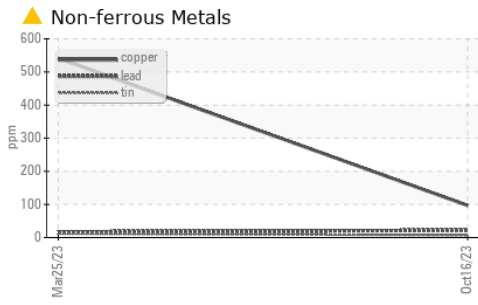
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	8	15	---
Potassium	ppm	ASTM D5185m	>20	1	4	---
Fuel	%	ASTM D3524	>2.1	<1.0	0.7	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	*ASTM D7844	>3	0.5	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	10.1	9.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	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 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	6	12	---
Boron	ppm	ASTM D5185m		39	132	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		245	235	---
Manganese	ppm	ASTM D5185m		3	14	---
Magnesium	ppm	ASTM D5185m		815	770	---
Calcium	ppm	ASTM D5185m		1469	1400	---
Phosphorus	ppm	ASTM D5185m		816	811	---
Zinc	ppm	ASTM D5185m		1026	996	---
Sulfur	ppm	ASTM D5185m		2826	2677	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8	17.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.7	8.1	---
Visc @ 100°C	cSt	ASTM D445	15.4	● 11.8	● 9.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0004675 **Received** : 24 Oct 2023
Lab Number : 05987900 **Tested** : 25 Oct 2023
Unique Number : 10710562 **Diagnosed** : 26 Oct 2023 - Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, TBN)

WARRIOR TRACTOR AND EQUIPMENT - GRAYSVILLE
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 GRAYSVILLE, AL
 US 35073
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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)