



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 844L 1DW844LXP NL715296

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. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0003121	---	---
Sample Date		Client Info		25 Mar 2023	---	---
Machine Age	hrs	Client Info		528	---	---
Oil Age	hrs	Client Info		528	---	---
Filter Age	hrs	Client Info		528	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

Bearing and/or bushing wear is indicated. Metal levels appear high for a new component breaking in.

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

CONTAMINATION

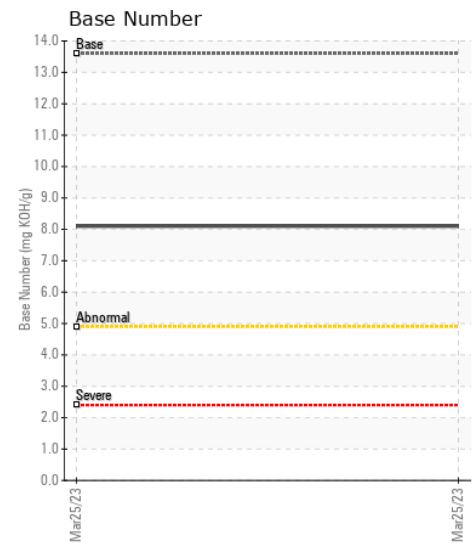
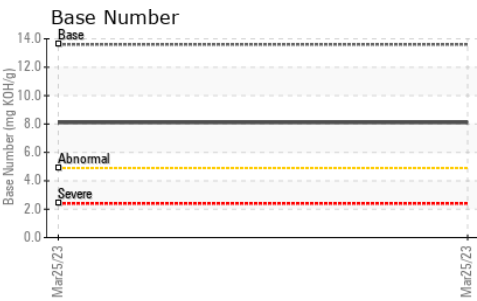
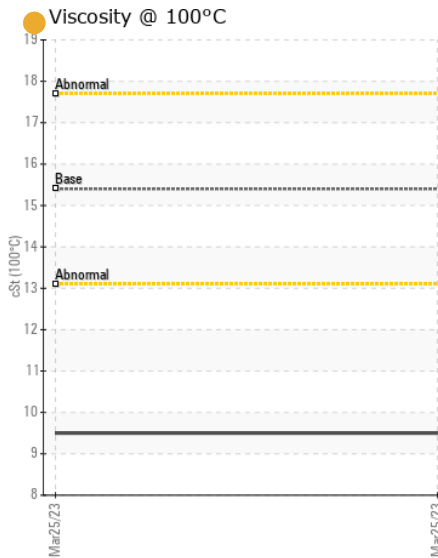
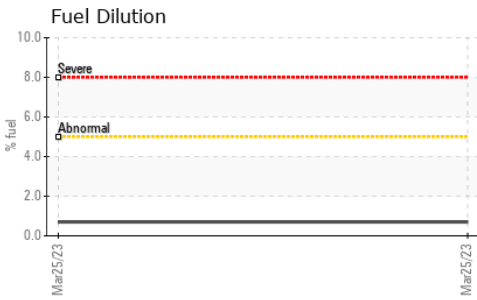
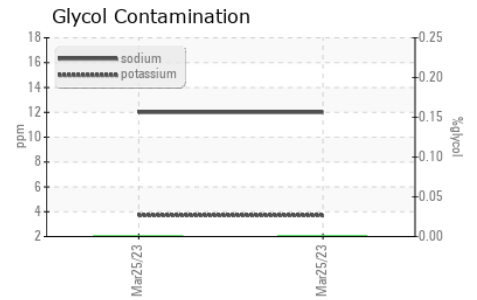
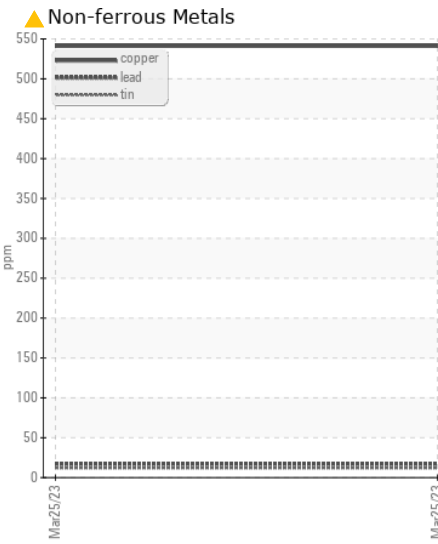
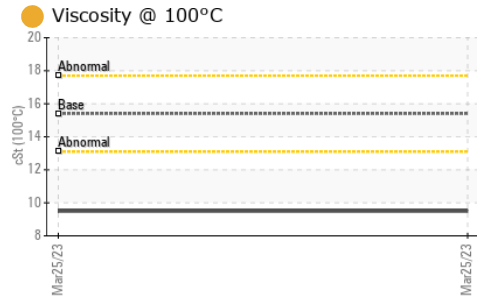
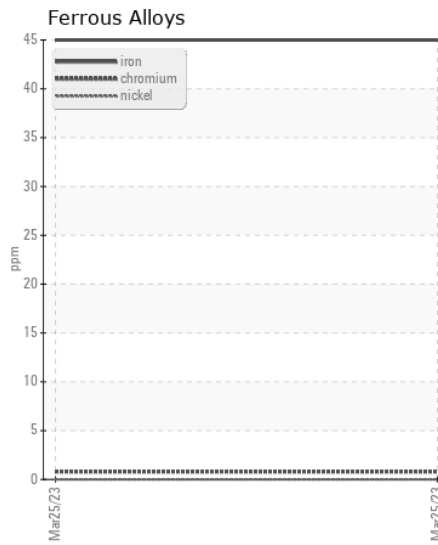
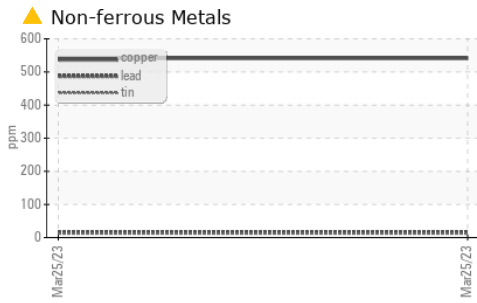
Fuel content negligible. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>22	15	---	---
Potassium	ppm	ASTM D5185m	>20	4	---	---
Fuel	%	ASTM D3524	>5	0.7	---	---
Water		WC Method	>0.21	NEG	---	---
Glycol	%	*ASTM D2982		0.0	---	---
Soot %	%	*ASTM D7844	>3	0.5	---	---
Nitration	Abs/cm	*ASTM D7624	>20	9.4	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.21	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	12	---	---
Boron	ppm	ASTM D5185m		132	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		235	---	---
Manganese	ppm	ASTM D5185m		14	---	---
Magnesium	ppm	ASTM D5185m		770	---	---
Calcium	ppm	ASTM D5185m		1400	---	---
Phosphorus	ppm	ASTM D5185m		811	---	---
Zinc	ppm	ASTM D5185m		996	---	---
Sulfur	ppm	ASTM D5185m		2677	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.1	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	● 9.5	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0003121 **Received** : 30 Mar 2023
Lab Number : 05805998 **Tested** : 07 Apr 2023
Unique Number : 10403527 **Diagnosed** : 07 Apr 2023 - Doug Bogart
Test Package : CONST (Additional Tests: FuelDilution, Glycol, 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)