



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W20730-EDWARDS]

Machine Id

JOHN DEERE 1023E 1LV1023ETLL138539

Component

Diesel Engine

Fluid

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

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196657	JR0131675	---
Sample Date		Client Info		05 Jan 2024	07 Jun 2022	---
Machine Age	hrs	Client Info		56	29	---
Oil Age	hrs	Client Info		56	0	---
Filter Age	hrs	Client Info		56	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	7	10	---
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	<1	---
Aluminum	ppm	ASTM D5185m	>31	3	3	---
Lead	ppm	ASTM D5185m	>26	0	1	---
Copper	ppm	ASTM D5185m	>26	4	12	---
Tin	ppm	ASTM D5185m	>4	0	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

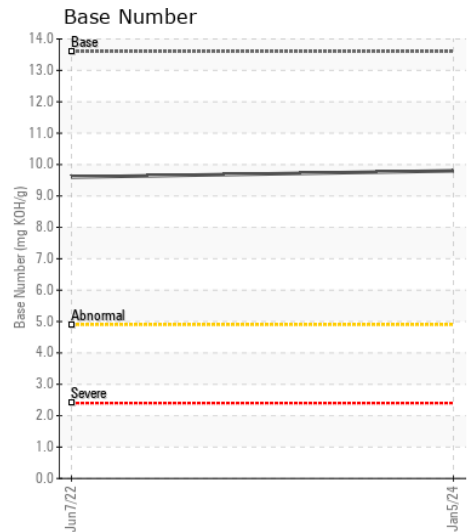
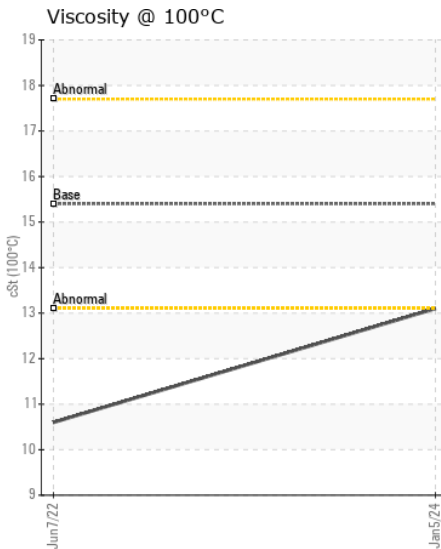
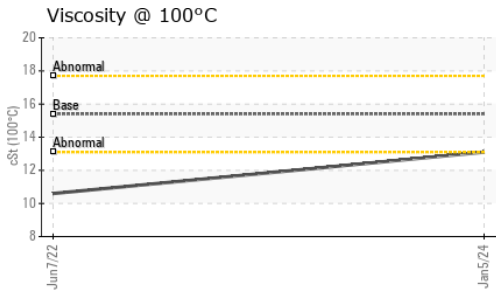
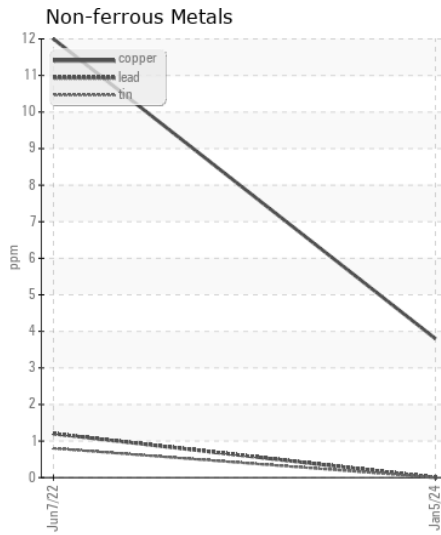
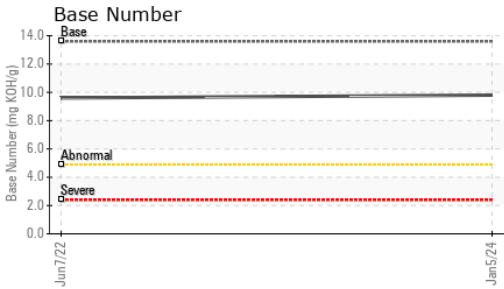
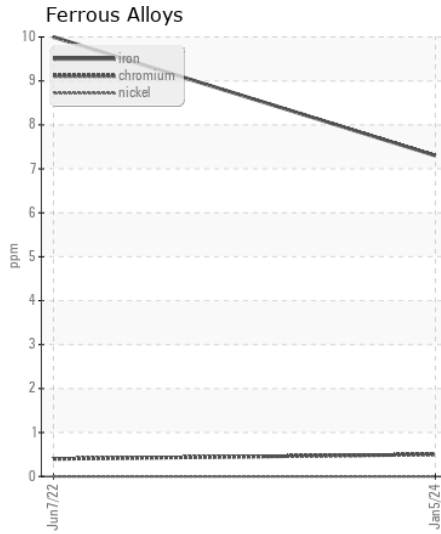
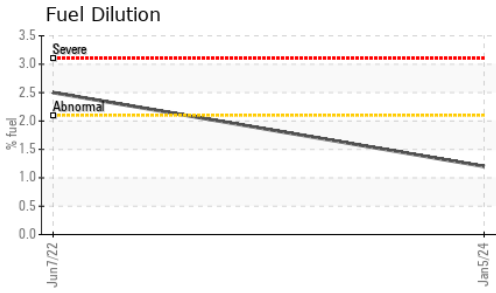
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>22	20	60	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Fuel	%	ASTM D3524	>2.1	1.2	▲ 2.5	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	18.0	---
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	3	11	---
Boron	ppm	ASTM D5185m		250	227	---
Barium	ppm	ASTM D5185m		0	9	---
Molybdenum	ppm	ASTM D5185m		240	185	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m		756	518	---
Calcium	ppm	ASTM D5185m		1539	2025	---
Phosphorus	ppm	ASTM D5185m		863	908	---
Zinc	ppm	ASTM D5185m		1049	1052	---
Sulfur	ppm	ASTM D5185m		3102	3901	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	13.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.8	9.6	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	▲ 10.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196657 **Received** : 12 Jan 2024
Lab Number : 06060047 **Diagnosed** : 16 Jan 2024
Unique Number : 10831429 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: PercentFuel, TBN)

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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