



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 944K 703680
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MT0005851	MT0005782	---
Sample Date		Client Info		25 Jan 2024	04 Dec 2023	---
Machine Age	hrs	Client Info		1997	1675	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	12	5	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	7	5	---
Lead	ppm	ASTM D5185m	>26	9	2	---
Copper	ppm	ASTM D5185m	>26	10	3	---
Tin	ppm	ASTM D5185m	>4	2	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

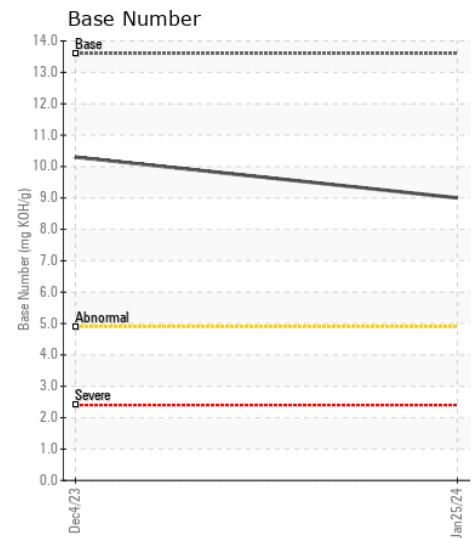
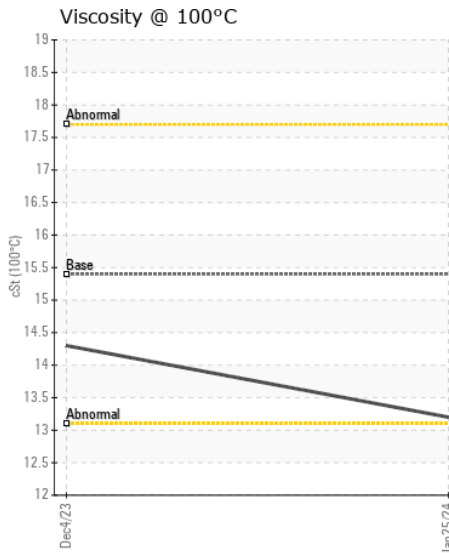
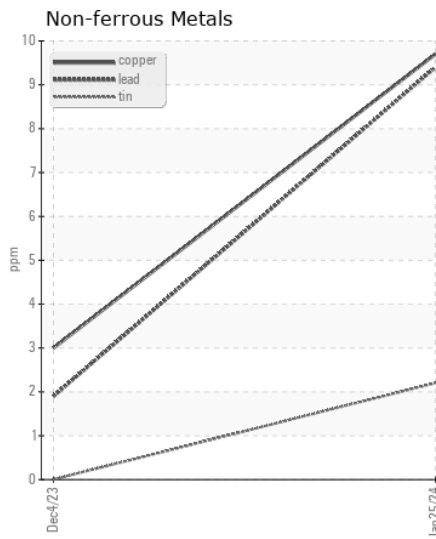
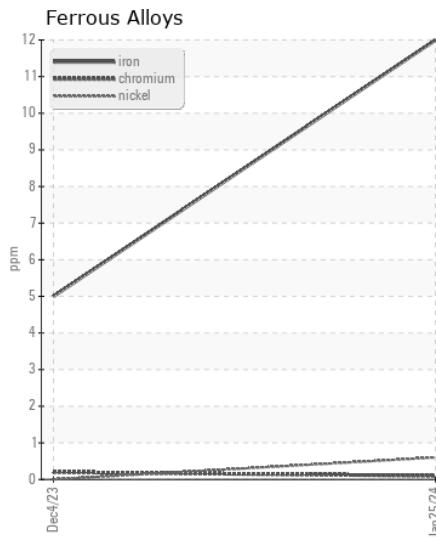
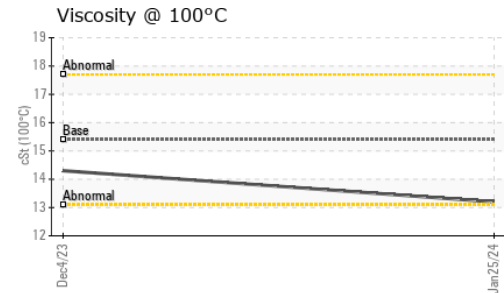
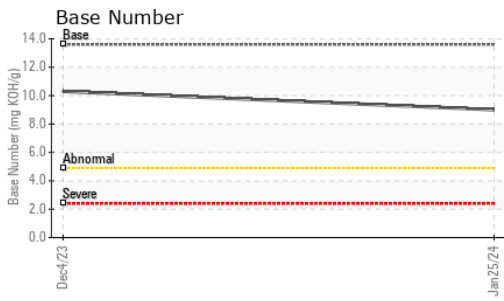
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	6	7	---
Potassium	ppm	ASTM D5185m	>20	6	2	---
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	0.6	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	9.5	6.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	20.3	---
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	4	4	---
Boron	ppm	ASTM D5185m		182	286	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		242	259	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m		807	813	---
Calcium	ppm	ASTM D5185m		1300	1317	---
Phosphorus	ppm	ASTM D5185m		950	898	---
Zinc	ppm	ASTM D5185m		1090	1073	---
Sulfur	ppm	ASTM D5185m		3045	2735	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	14.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.0	10.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	14.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MT0005851 **Received** : 31 Jan 2024
Lab Number : 06075576 **Diagnosed** : 01 Feb 2024
Unique Number : 10857667 **Diagnostician** : Angela Borella
Test Package : CONST (Additional Tests: 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)