



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 245G PLEASANTS (S/N 1FF245GXLMF802192)

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (22 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203243	JR0195848	JR0123273
Sample Date		Client Info		21 Feb 2024	29 Dec 2023	25 Apr 2022
Machine Age	hrs	Client Info		3826	3597	271
Oil Age	hrs	Client Info		229	3326	271
Filter Age	hrs	Client Info		229	3326	271
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	11	3	17
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	11	4	6
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m	>26	<1	1	12
Tin	ppm	ASTM D5185m	>4	1	<1	4
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

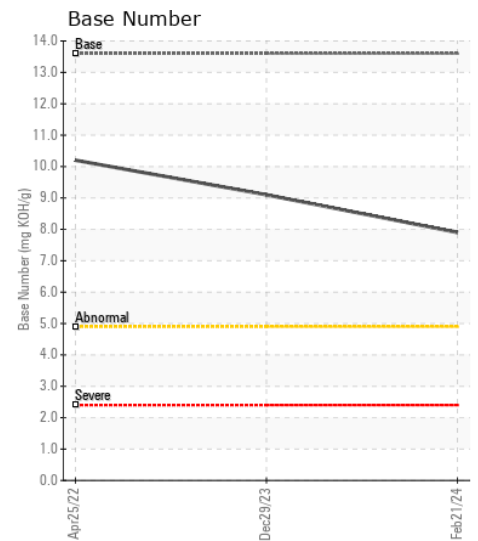
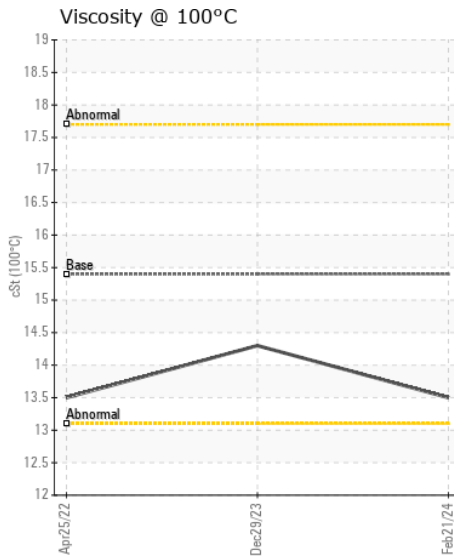
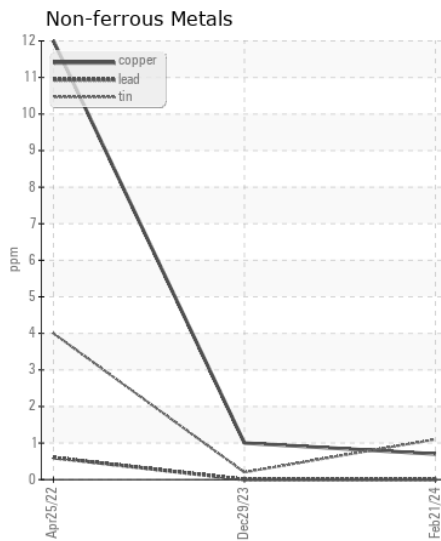
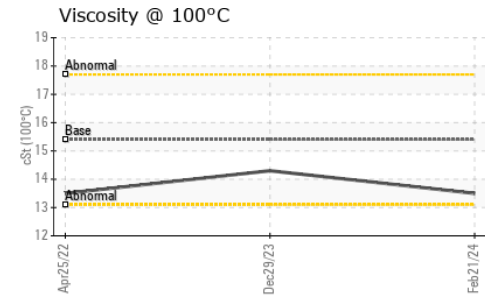
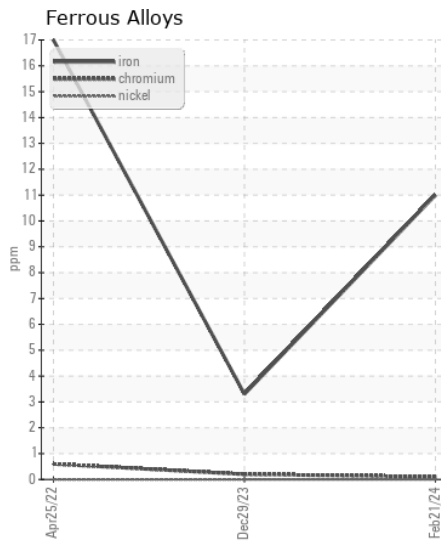
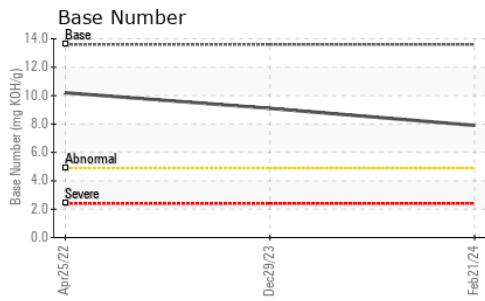
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	21	7	28
Potassium	ppm	ASTM D5185m	>20	0	2	5
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.6	6.9	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	20.4	17.0
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	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	<1	0	0
Boron	ppm	ASTM D5185m		216	258	189
Barium	ppm	ASTM D5185m		0	11	0
Molybdenum	ppm	ASTM D5185m		206	248	1
Manganese	ppm	ASTM D5185m		<1	0	3
Magnesium	ppm	ASTM D5185m		740	739	12
Calcium	ppm	ASTM D5185m		1397	1309	2233
Phosphorus	ppm	ASTM D5185m		829	908	1053
Zinc	ppm	ASTM D5185m		977	973	1242
Sulfur	ppm	ASTM D5185m		2795	3212	2848
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.1	14.7	9.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.9	9.1	10.2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	14.3	13.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0203243

Lab Number : 06097415

Unique Number : 10890268

Test Package : CONST (Additional Tests: TBN)

Received : 22 Feb 2024

Tested : 23 Feb 2024

Diagnosed : 23 Feb 2024 - Wes Davis

JRE - MANASSAS PARK

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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)