



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W63109]
 Machine Id
JOHN DEERE 210G 1FF210GXHJF526691
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W63109)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0189102	JR0178700	JR0161969
Sample Date		Client Info		16 Jan 2024	17 Aug 2023	28 Apr 2023
Machine Age	hrs	Client Info		3539	2989	2639
Oil Age	hrs	Client Info		550	2793	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	23	34	8
Chromium	ppm	ASTM D5185m	>11	<1	1	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	5	0
Lead	ppm	ASTM D5185m	>26	0	<1	0
Copper	ppm	ASTM D5185m	>26	2	4	<1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

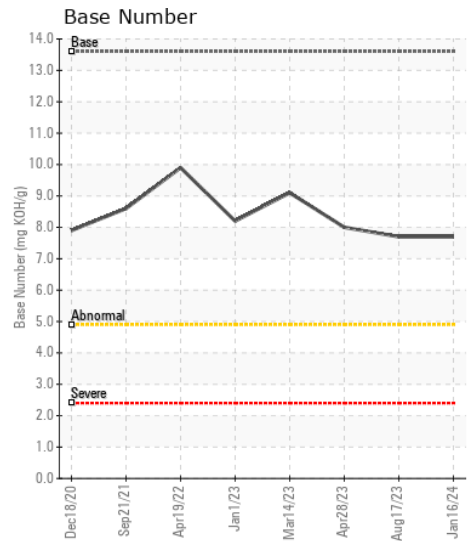
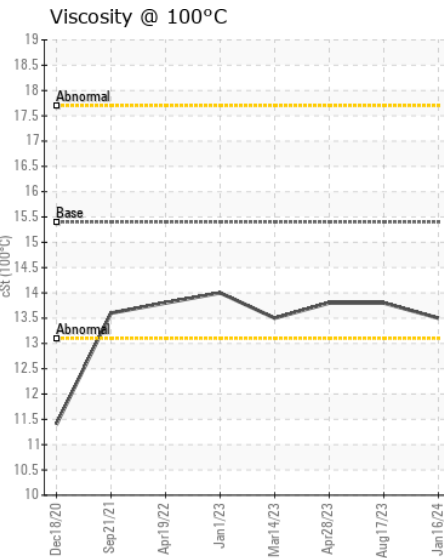
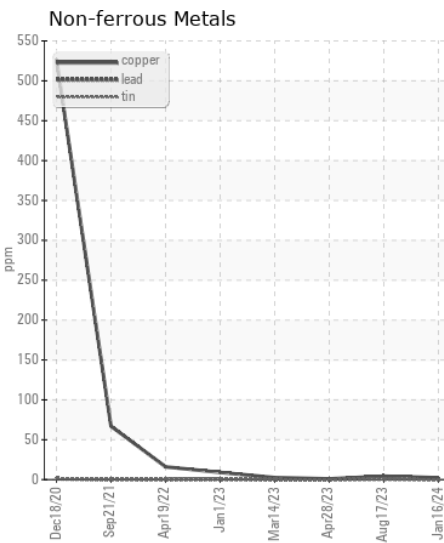
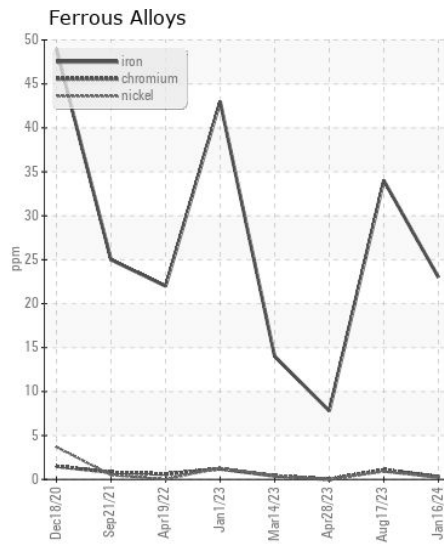
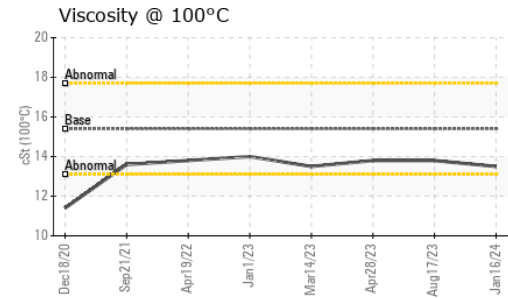
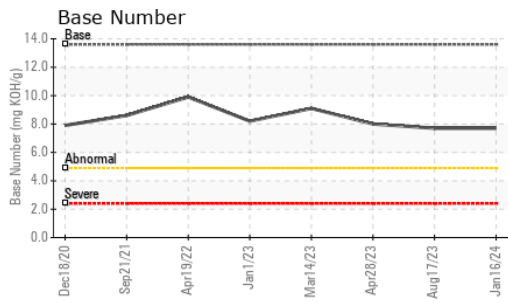
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	10	13	6
Potassium	ppm	ASTM D5185m	>20	2	4	2
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	0.7	0.8	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.5	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	23.8	19.1
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	0	5	1
Boron	ppm	ASTM D5185m		165	220	256
Barium	ppm	ASTM D5185m		4	0	0
Molybdenum	ppm	ASTM D5185m		250	375	246
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		848	1218	770
Calcium	ppm	ASTM D5185m		1378	2164	1423
Phosphorus	ppm	ASTM D5185m		911	1302	859
Zinc	ppm	ASTM D5185m		1069	1535	1052
Sulfur	ppm	ASTM D5185m		3334	4016	2711
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	17.6	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7	7.7	8.0
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.8	13.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189102 **Received** : 18 Jan 2024
Lab Number : 06064036 **Diagnosed** : 20 Jan 2024
Unique Number : 10835418 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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Certificate L2367
 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)