



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 350G 1FF350GXKHF811806
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0223384	JR0198378	JR0170831
Sample Date		Client Info		14 Jul 2024	03 Jan 2024	11 Jul 2023
Machine Age	hrs	Client Info		4039	3680	3368
Oil Age	hrs	Client Info		0	462	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The iron level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	▲ 66	▲ 123	▲ 141
Chromium	ppm	ASTM D5185m	>11	3	8	12
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	● 7	● 7
Lead	ppm	ASTM D5185m	>26	0	2	0
Copper	ppm	ASTM D5185m	>26	3	7	<1
Tin	ppm	ASTM D5185m	>4	0	2	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

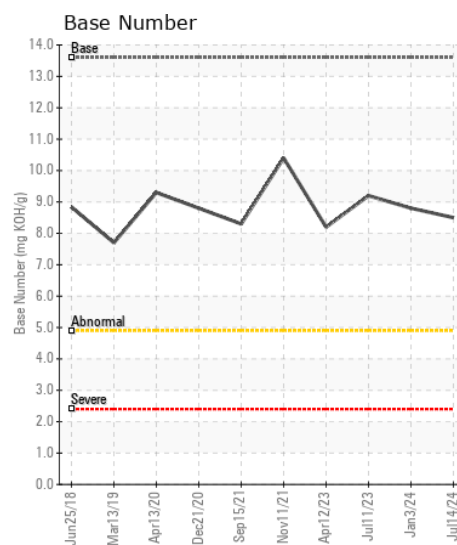
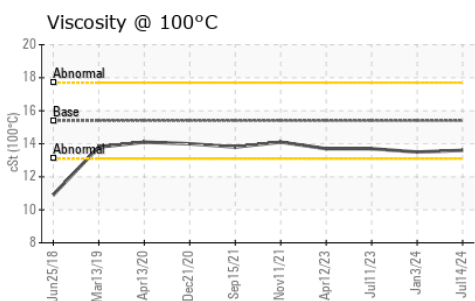
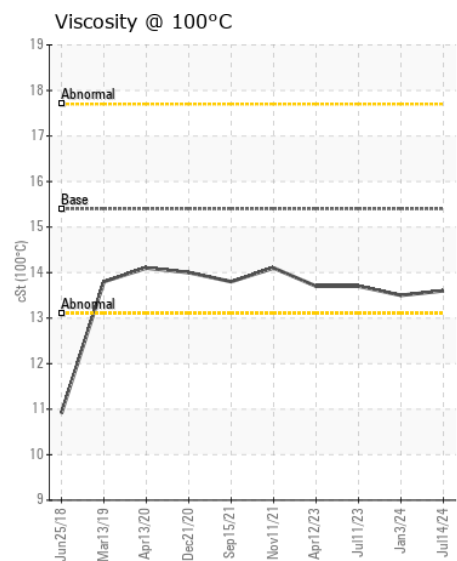
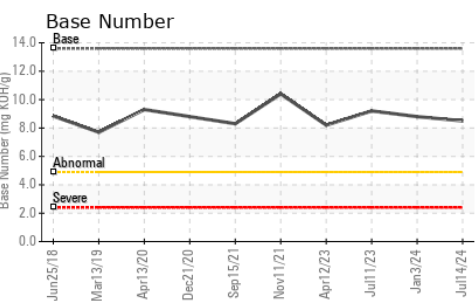
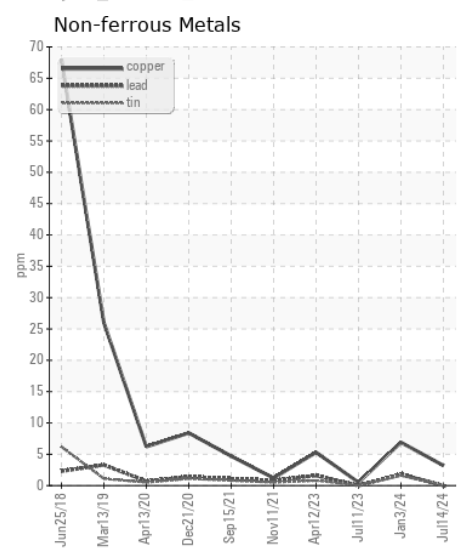
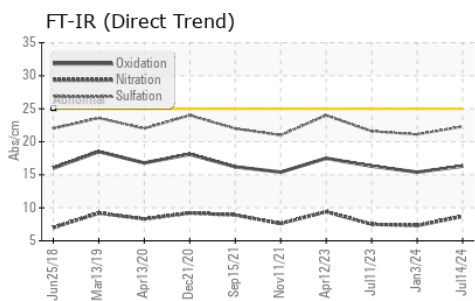
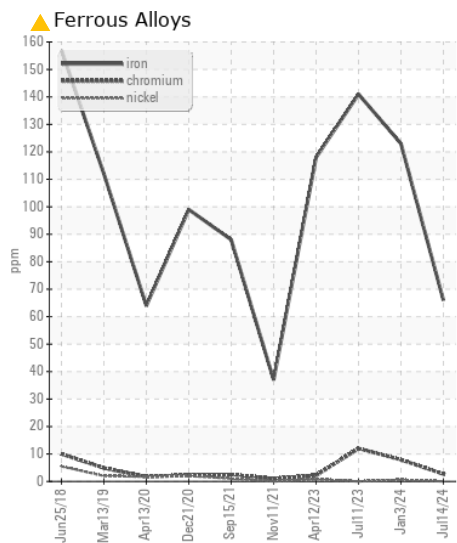
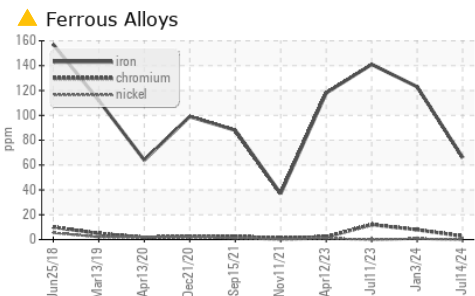
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	14	▲ 30	▲ 35
Potassium	ppm	ASTM D5185m	>20	<1	1	0
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	0.4	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.7	7.3	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	21.1	21.6
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	3	2	1
Boron	ppm	ASTM D5185m		169	131	221
Barium	ppm	ASTM D5185m		<1	<1	0
Molybdenum	ppm	ASTM D5185m		257	244	246
Manganese	ppm	ASTM D5185m		<1	1	0
Magnesium	ppm	ASTM D5185m		839	816	872
Calcium	ppm	ASTM D5185m		1513	1428	1416
Phosphorus	ppm	ASTM D5185m		901	898	880
Zinc	ppm	ASTM D5185m		1024	1020	1083
Sulfur	ppm	ASTM D5185m		3245	2821	3501
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	15.4	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	8.8	9.2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.5	13.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0223384 **Received** : 15 Jul 2024
Lab Number : 06235703 **Tested** : 16 Jul 2024
Unique Number : 11124537 **Diagnosed** : 16 Jul 2024 - Don Baldridge
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)