



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 333G 1T0333GMHLF373580
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218738	JR0191461	JR0099362
Sample Date		Client Info		19 Jun 2024	17 Nov 2023	23 Sep 2021
Machine Age	hrs	Client Info		1509	1270	754
Oil Age	hrs	Client Info		239	516	754
Filter Age	hrs	Client Info		239	516	754
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	23	▲ 63	40
Chromium	ppm	ASTM D5185m	>11	0	1	1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>31	4	● 9	6
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m	>26	10	▲ 43	▲ 242
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

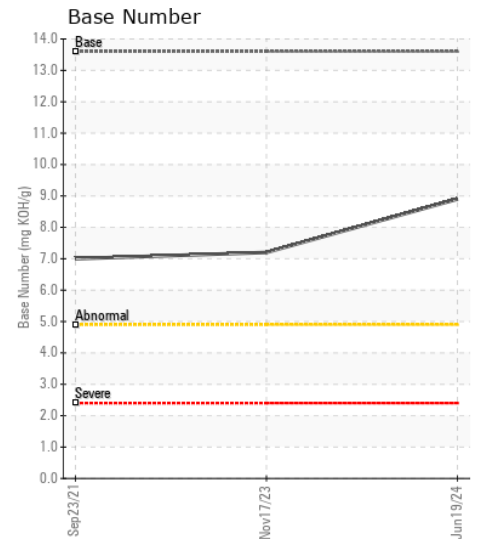
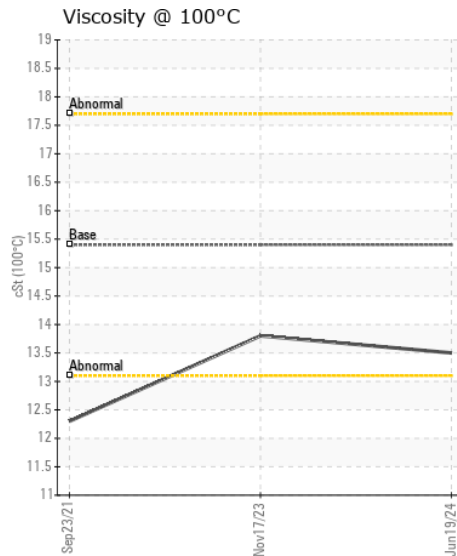
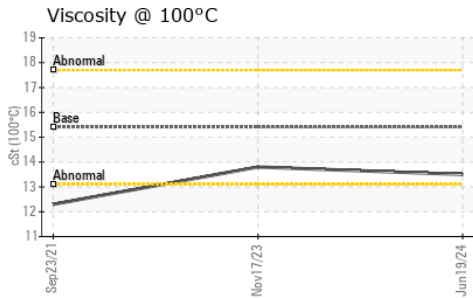
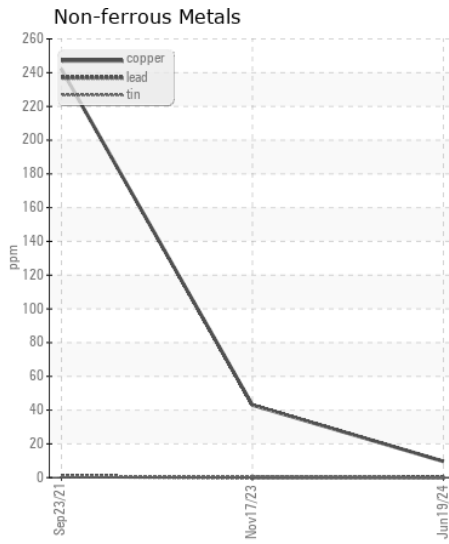
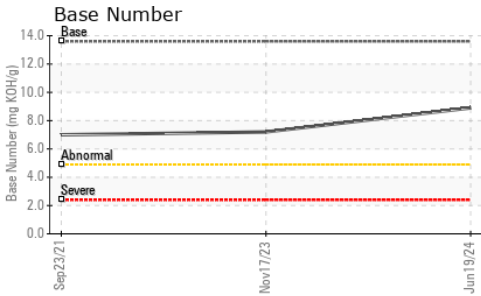
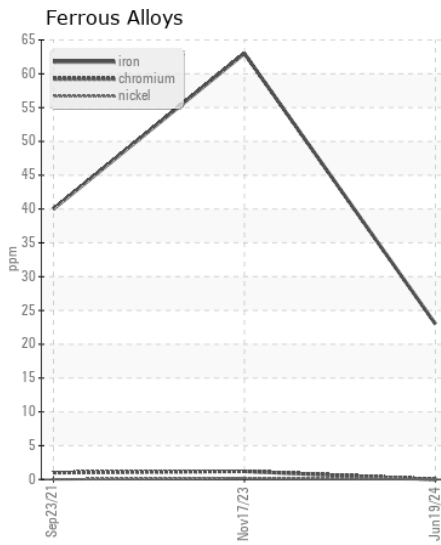
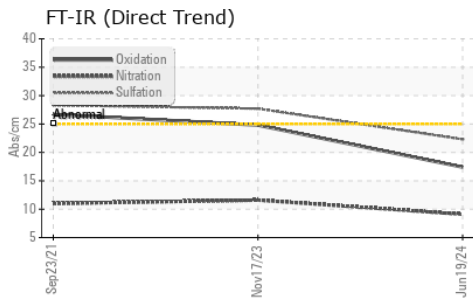
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	12	▲ 23	42
Potassium	ppm	ASTM D5185m	>20	0	2	2
Fuel		WC Method	>2.1	<1.0	<1.0	0.2
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.1	11.6	11
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	27.7	28.3
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	2	5	15
Boron	ppm	ASTM D5185m		211	104	128
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		251	252	247
Manganese	ppm	ASTM D5185m		<1	2	2
Magnesium	ppm	ASTM D5185m		850	860	751
Calcium	ppm	ASTM D5185m		1626	1745	1718
Phosphorus	ppm	ASTM D5185m		972	944	855
Zinc	ppm	ASTM D5185m		1167	1204	1040
Sulfur	ppm	ASTM D5185m		3518	2698	2345
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	24.8	26.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9	7.2	7
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.8	● 12.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218738 **Received** : 24 Jun 2024
Lab Number : 06218027 **Tested** : 25 Jun 2024
Unique Number : 11096224 **Diagnosed** : 25 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

JRE - ASHEVILLE
 101 BRUCE DRIVE
 ASHEVILLE, NC
 US 28806

Contact: Randy Warren
 randy.warren@jamesriverequipment.com

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)

T: (528)667-0176
 F: (828)667-4865