



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 544L 1DW544LZVLF707589
 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		JR0223093	JR0187128	JR0138451
Sample Date		Client Info		23 Jun 2024	25 Oct 2023	17 Jan 2023
Machine Age	hrs	Client Info		1194	927	683
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	MARGINAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	9	25	11
Chromium	ppm	ASTM D5185m	>11	0	1	<1
Nickel	ppm	ASTM D5185m	>5	0	1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	6	2
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m	>26	6	41	38
Tin	ppm	ASTM D5185m	>4	0	1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

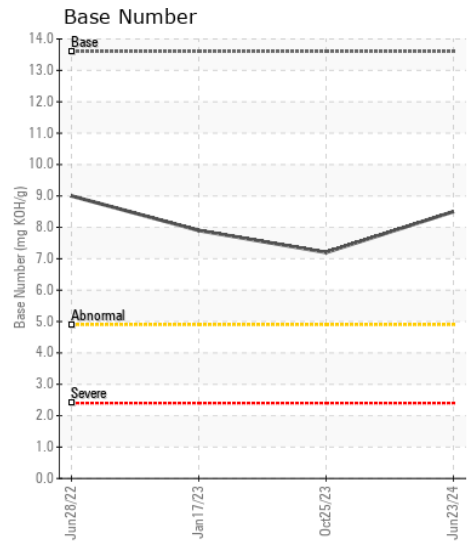
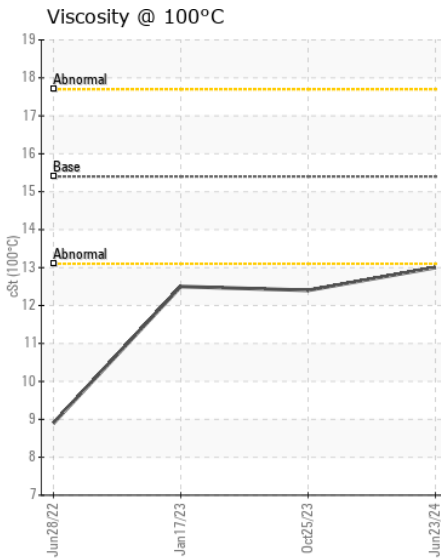
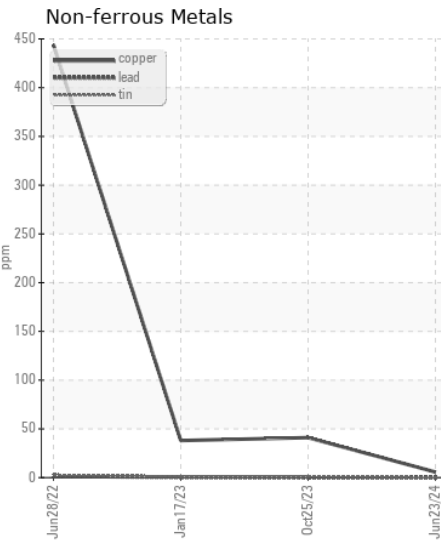
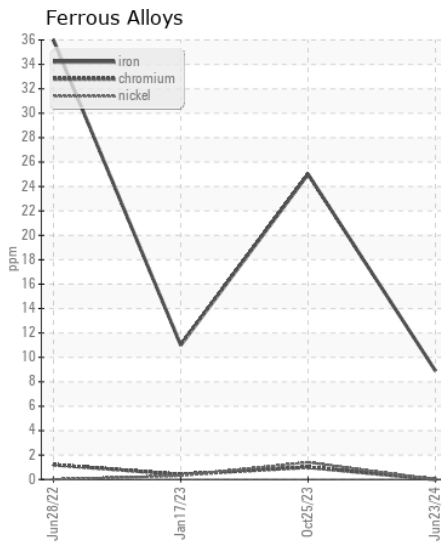
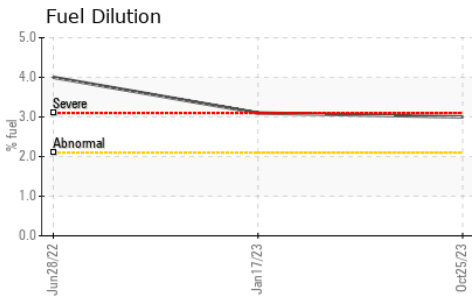
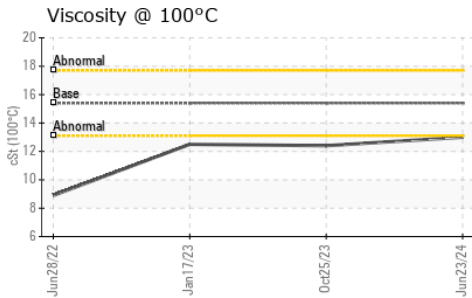
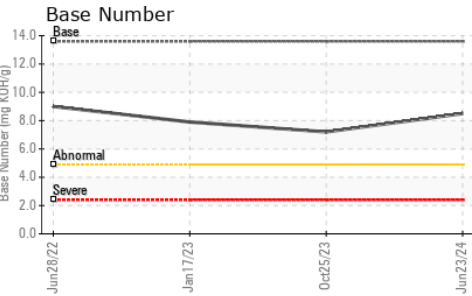
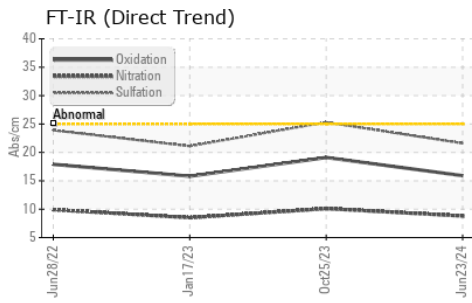
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	5	8	6
Potassium	ppm	ASTM D5185m	>20	0	4	<1
Fuel	%	ASTM D3524	>2.1	<1.0	▲ 3.0	▲ 3.1
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.1	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	25.3	21.1
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	2	4	3
Boron	ppm	ASTM D5185m		220	139	243
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		237	242	242
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		797	767	747
Calcium	ppm	ASTM D5185m		1443	1350	1407
Phosphorus	ppm	ASTM D5185m		904	865	851
Zinc	ppm	ASTM D5185m		1079	1023	987
Sulfur	ppm	ASTM D5185m		3404	3378	3418
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	19.1	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	7.2	7.9
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	12.4	12.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0223093 **Received** : 24 Jun 2024
Lab Number : 06218009 **Tested** : 25 Jun 2024
Unique Number : 11096206 **Diagnosed** : 25 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, 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)