



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[W52633 ADVANSIX]
 Machine Id
JOHN DEERE 824K 1DW824KXPDE655823
 Component
Hydraulic System
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224943	JR0199542	JR0200217
Sample Date		Client Info		19 Jun 2024	05 Apr 2024	17 Jan 2024
Machine Age	hrs	Client Info		15680	15291	14800
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184	>50	16	18	14
Iron	ppm	ASTM D5185m	>71	3	5	6
Chromium	ppm	ASTM D5185m	>11	<1	<1	0
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>11	2	2	<1
Lead	ppm	ASTM D5185m	>13	0	0	0
Copper	ppm	ASTM D5185m	>21	4	7	2
Tin	ppm	ASTM D5185m	>5	0	<1	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

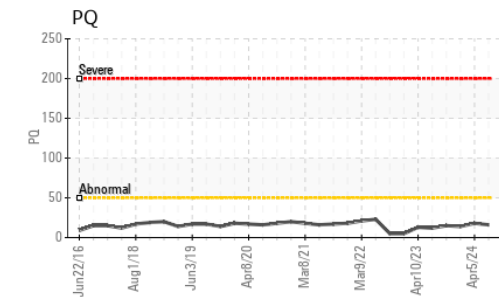
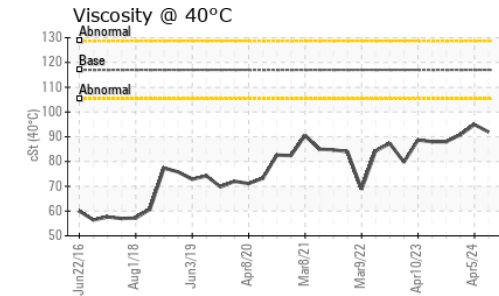
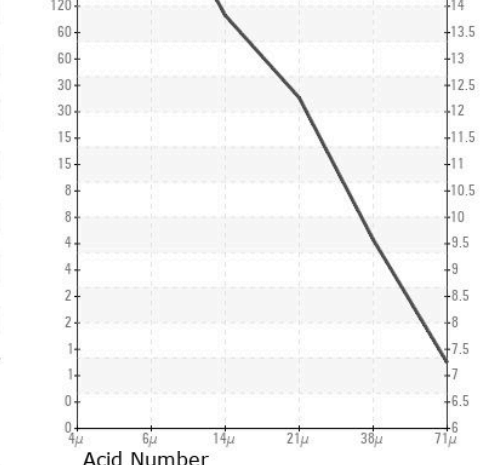
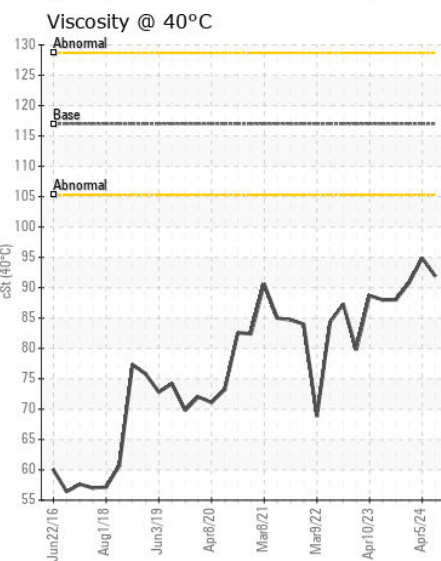
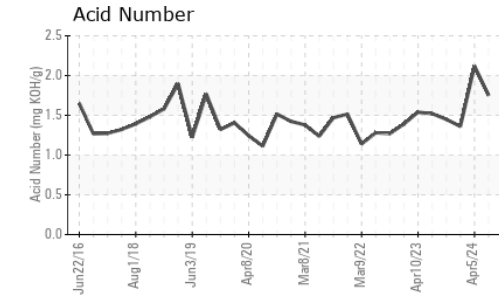
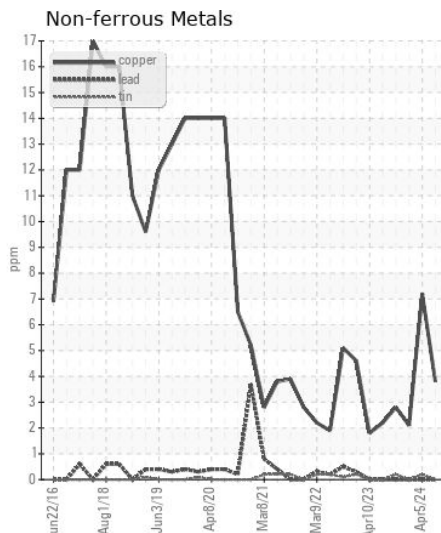
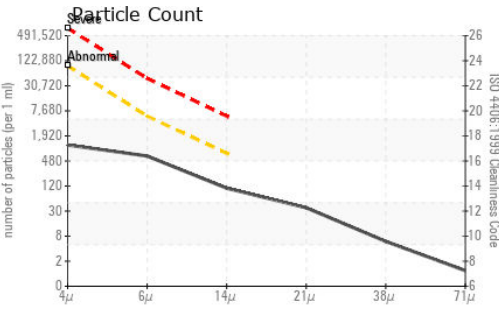
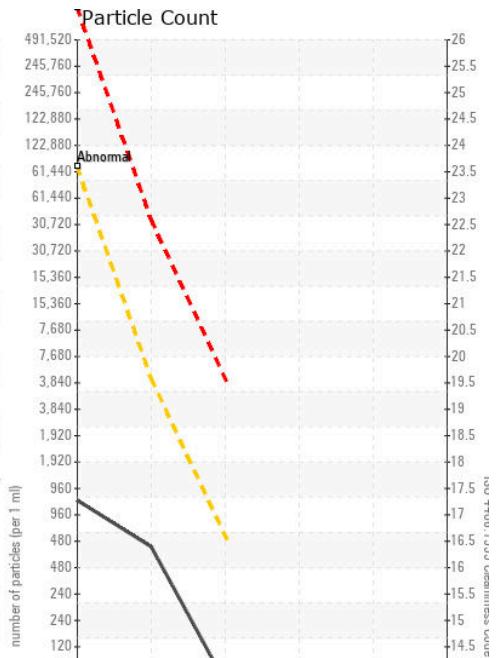
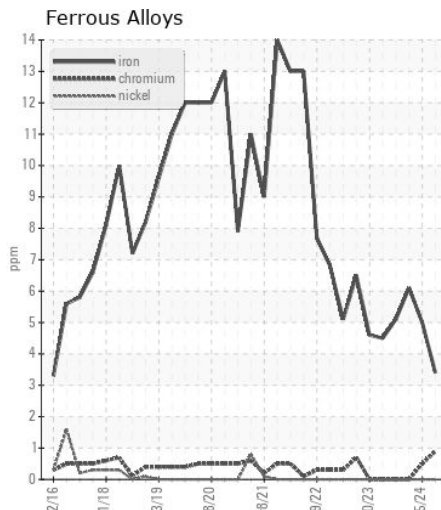
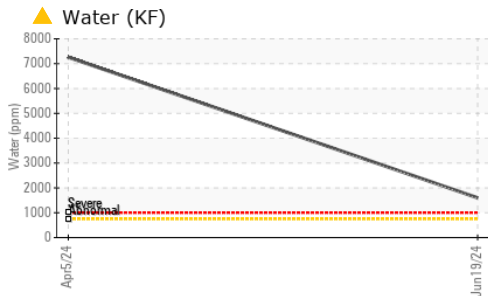
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>24	6	8	7
Potassium	ppm	ASTM D5185m	>20	33	73	0
Water	%	ASTM D6304	>0.075	▲ 0.160	▲ 0.726	---
ppm Water	ppm	ASTM D6304	>750	▲ 1600	▲ 7260	---
Particles >4µm		ASTM D7647	>80000	1018	618	56083
Particles >6µm		ASTM D7647	>5000	554	336	2535
Particles >14µm		ASTM D7647	>640	94	57	18
Particles >21µm		ASTM D7647	>160	32	19	6
Particles >38µm		ASTM D7647	>40	5	3	1
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	17/16/14	16/16/13	23/19/11
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	>0.075	▲ 0.2%	▲ 0.2%	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	6	7	3
Boron	ppm	ASTM D5185m		65	67	66
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		72	77	50
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		715	670	556
Calcium	ppm	ASTM D5185m		1390	1295	1381
Phosphorus	ppm	ASTM D5185m		1037	914	801
Zinc	ppm	ASTM D5185m		1212	1103	948
Sulfur	ppm	ASTM D5185m		3737	3222	2598
Acid Number (AN)	mg KOH/g	ASTM D8045		1.75	2.12	1.36
Visc @ 40°C	cSt	ASTM D445	117	91.9	94.9	90.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224943 **Received** : 27 Jun 2024
Lab Number : 06222276 **Tested** : 02 Jul 2024
Unique Number : 11100473 **Diagnosed** : 02 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF, PQ)

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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)