



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[16W16568]
 Machine Id
JOHN DEERE 650K-II 1T0650KKJNF421845
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (26 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W16568)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217294	JR0196529	JR0185295
Sample Date		Client Info		01 Jul 2024	01 Feb 2024	02 Oct 2023
Machine Age	hrs	Client Info		2451	1990	1467
Oil Age	hrs	Client Info		461	1990	1467
Filter Age	hrs	Client Info		461	1990	1467
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	15	17	16
Iron	ppm	ASTM D5185m	>23	4	1	11
Chromium	ppm	ASTM D5185m	>9	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	<1	2
Lead	ppm	ASTM D5185m	>28	0	1	1
Copper	ppm	ASTM D5185m	>51	5	16	13
Tin	ppm	ASTM D5185m	>5	0	0	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

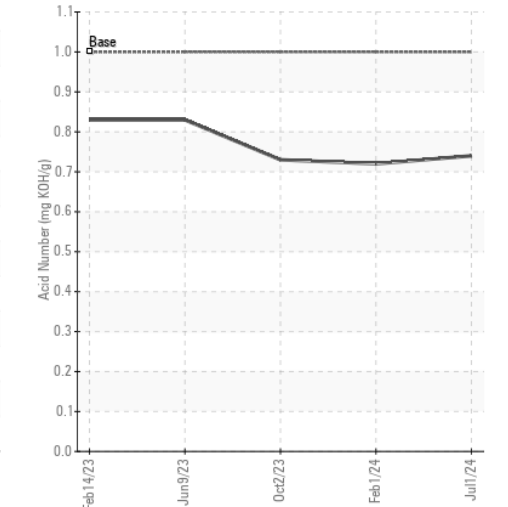
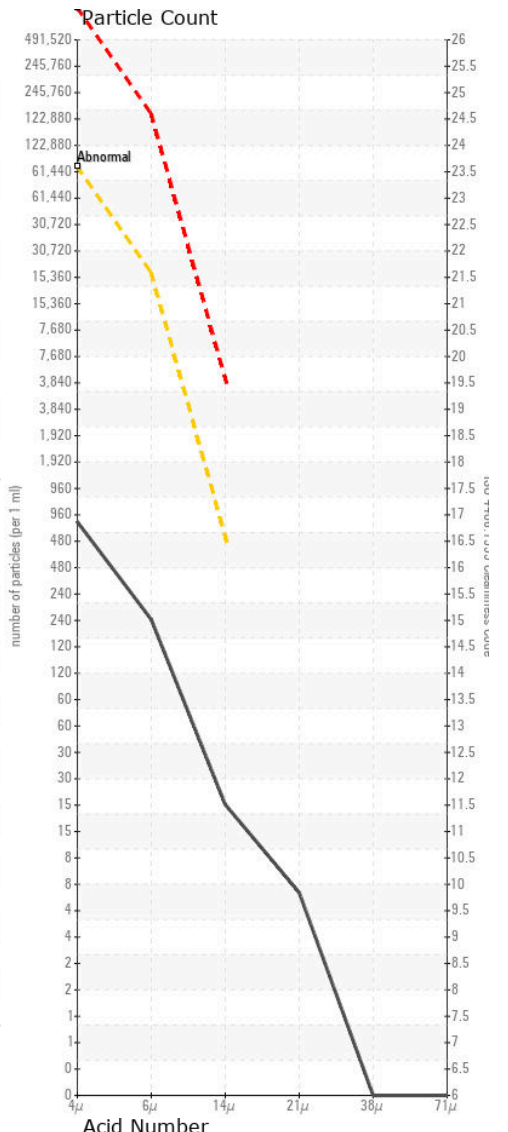
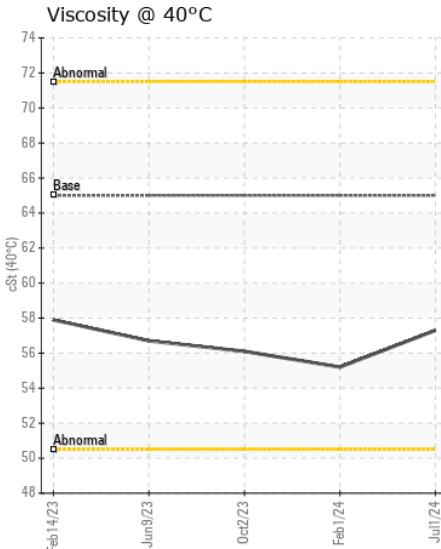
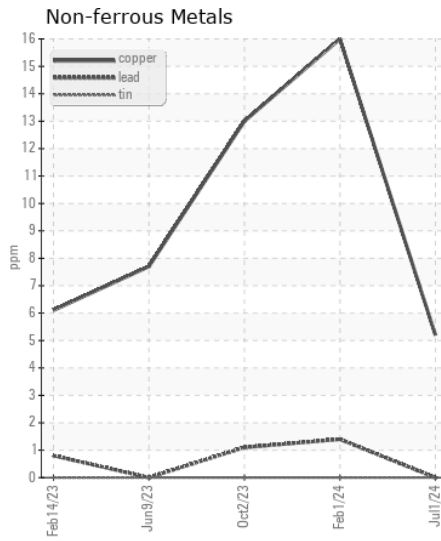
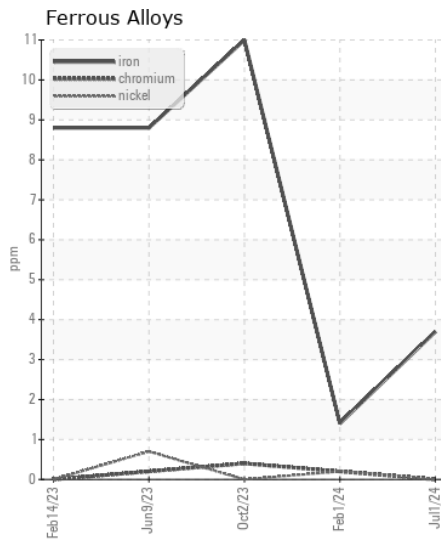
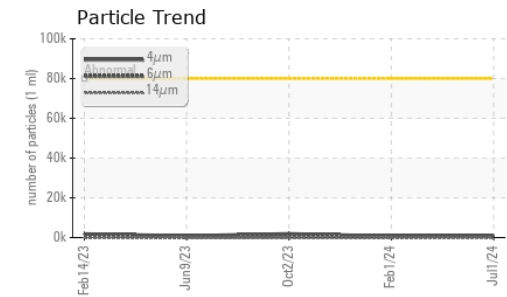
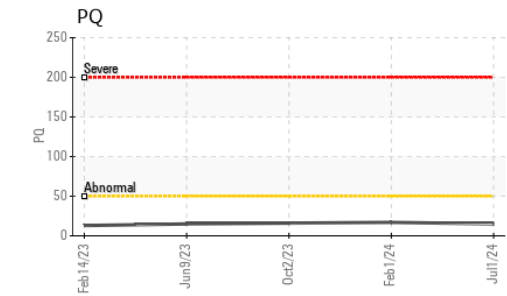
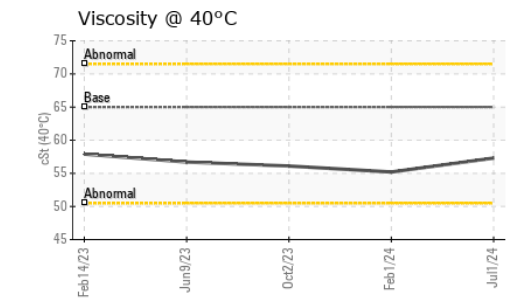
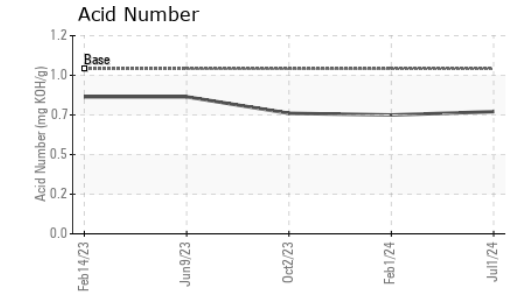
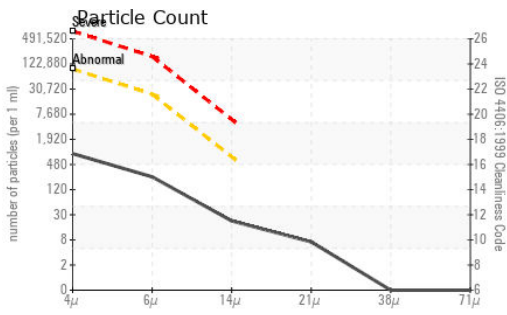
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<1	<1	2
Potassium	ppm	ASTM D5185m	>20	1	<1	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	767	712	1936
Particles >6µm		ASTM D7647	>20000	214	80	180
Particles >14µm		ASTM D7647	>640	19	10	13
Particles >21µm		ASTM D7647	>160	6	4	4
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	17/15/11	17/13/10	18/15/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	1	0	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	1	2
Calcium	ppm	ASTM D5185m	87	93	81	86
Phosphorus	ppm	ASTM D5185m	727	665	642	651
Zinc	ppm	ASTM D5185m	900	851	850	900
Sulfur	ppm	ASTM D5185m	1500	1972	1604	1899
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.74	0.72	0.73
Visc @ 40°C	cSt	ASTM D445	65	57.3	55.2	56.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217294
Lab Number : 06226102
Unique Number : 11109595
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529
 Contact: RALEIGH SHOP
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com
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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)