



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 944K 1DW944KXLNL703700
 Component
Front Right Final Drive
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. 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		JR0179296	JR0179394	JR0148631
Sample Date		Client Info		09 Apr 2024	28 Nov 2023	23 Feb 2023
Machine Age	hrs	Client Info		2632	1970	244
Oil Age	hrs	Client Info		0	0	244
Filter Age	hrs	Client Info		0	0	244
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

The copper level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184	>1250	15	16	13
Iron	ppm	ASTM D5185m	>750	16	251	7
Chromium	ppm	ASTM D5185m	>9	1	2	<1
Nickel	ppm	ASTM D5185m	>10	2	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	1	4	1
Lead	ppm	ASTM D5185m	>15	2	<1	0
Copper	ppm	ASTM D5185m	>40	▲ 46	▲ 105	<1
Tin	ppm	ASTM D5185m	>10	3	0	0
Vanadium	ppm	ASTM D5185m		1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

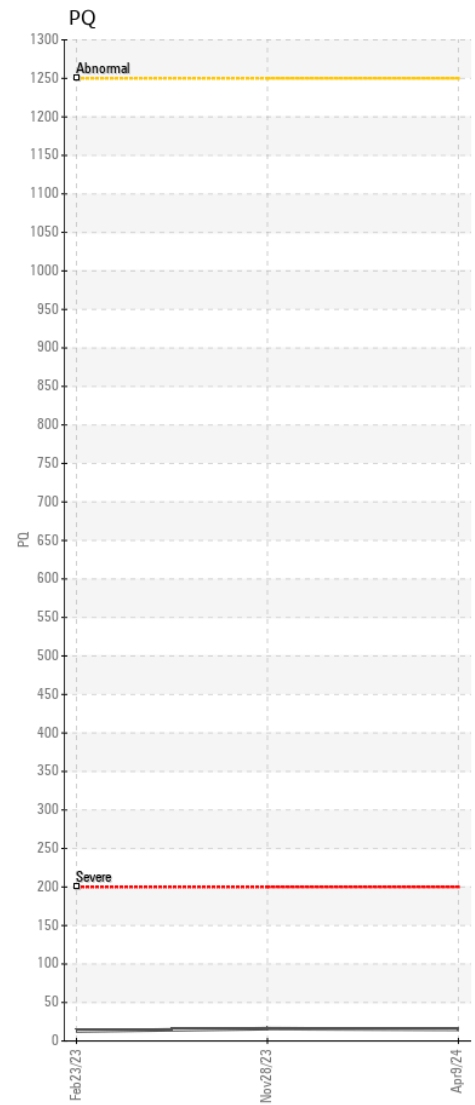
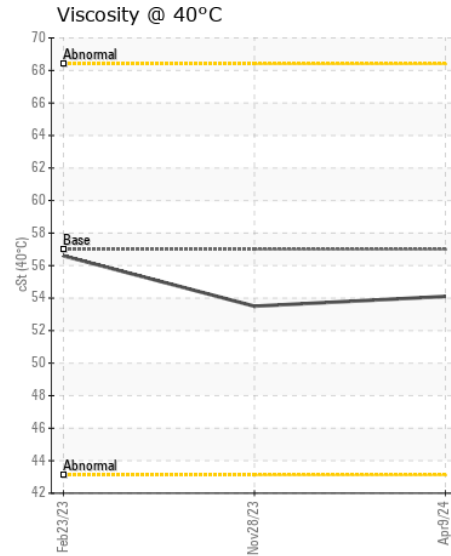
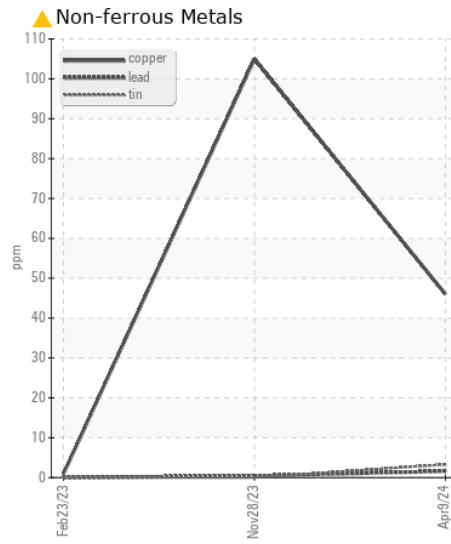
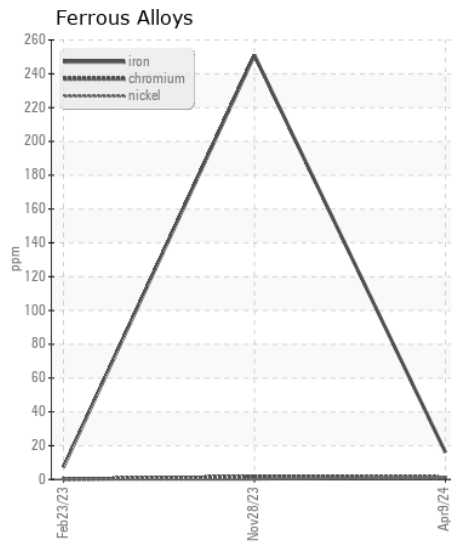
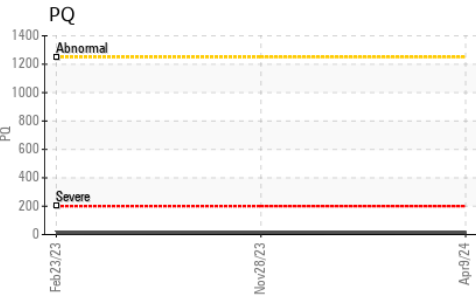
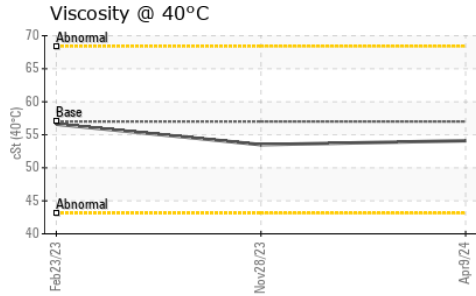
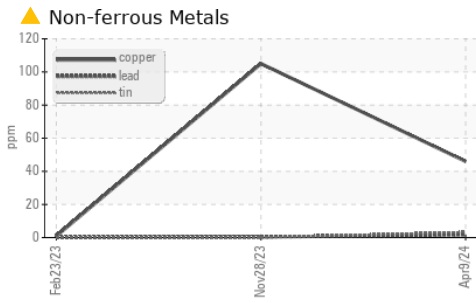
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	17	▲ 89	17
Potassium	ppm	ASTM D5185m	>20	4	0	0
Water		WC Method	>0.075	NEG	NEG	NEG
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	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	0	2	2
Boron	ppm	ASTM D5185m	6	11	6	2
Barium	ppm	ASTM D5185m	0	3	<1	2
Molybdenum	ppm	ASTM D5185m	0	8	3	<1
Manganese	ppm	ASTM D5185m		2	2	<1
Magnesium	ppm	ASTM D5185m	145	130	112	105
Calcium	ppm	ASTM D5185m	3570	3915	3320	3524
Phosphorus	ppm	ASTM D5185m	1290	1044	857	982
Zinc	ppm	ASTM D5185m	1640	1196	1177	1245
Sulfur	ppm	ASTM D5185m		4439	5674	4270
Visc @ 40°C	cSt	ASTM D445	57.0	54.1	53.5	56.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179296
Lab Number : 06150677
Unique Number : 10980755
Test Package : CONST (Additional Tests: PQ)

Received : 16 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 18 Apr 2024 - Sean Felton

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005

Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com

T: (804)798-6001
 F: (804)798-0292

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)