



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[SWM]
Machine Id
JOHN DEERE 744K 1DW744KXCJF689230
Component
Rear Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0190043	JR0176112	JR0157481
Sample Date		Client Info		19 Oct 2023	05 Jul 2023	10 Apr 2023
Machine Age	hrs	Client Info		4438	3946	3456
Oil Age	hrs	Client Info		0	2521	2524
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		24	46	40
Iron	ppm	ASTM D5185m	>500	19	65	58
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	1
Lead	ppm	ASTM D5185m	>25	3	9	8
Copper	ppm	ASTM D5185m	>100	3	9	8
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

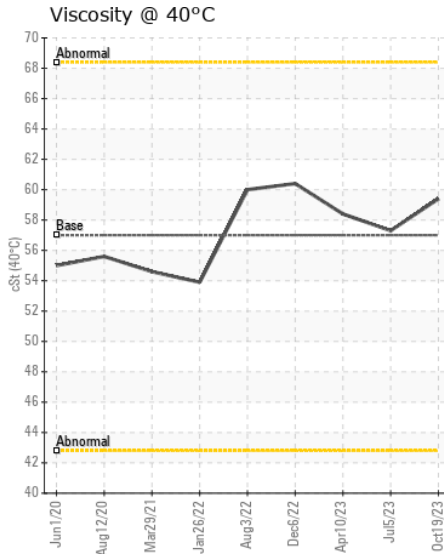
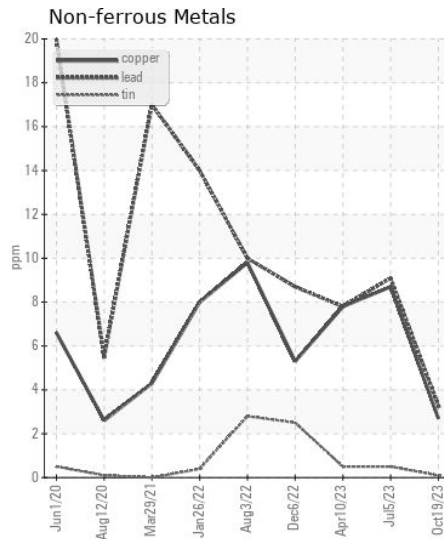
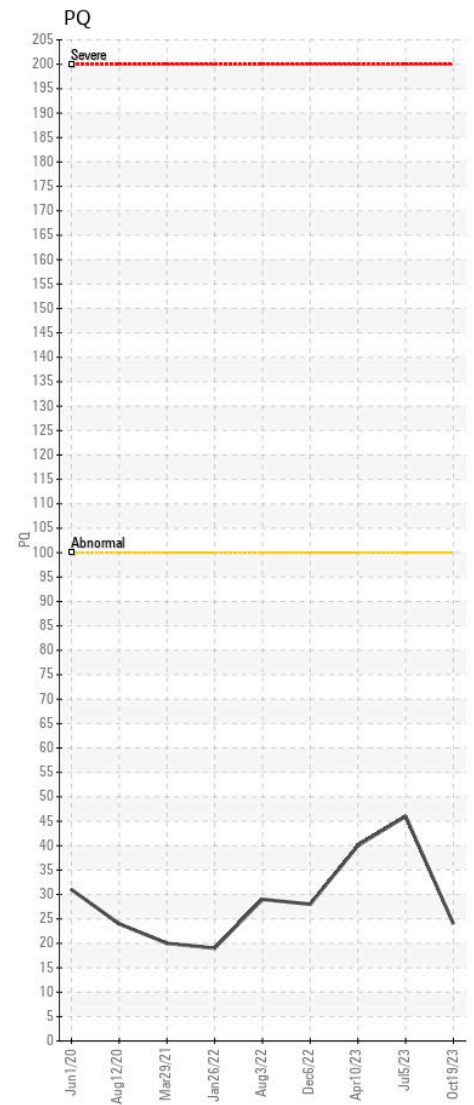
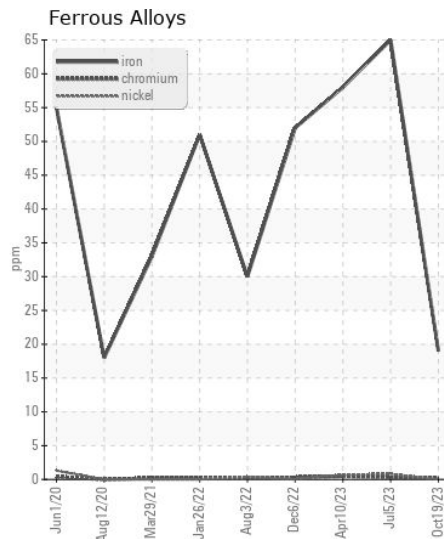
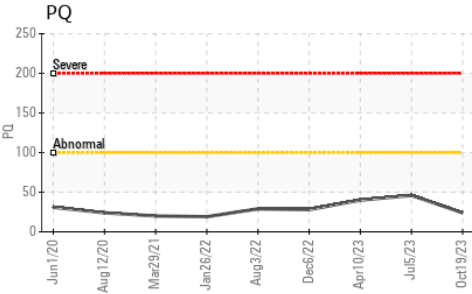
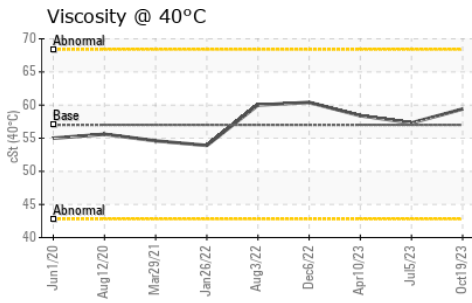
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	6	7	9
Potassium	ppm	ASTM D5185m	>20	2	2	3
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● MILKY	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	▲ 0.2%	▲ 0.2%

FLUID CONDITION

The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	1	6
Boron	ppm	ASTM D5185m	6	6	15	17
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	5	7	7
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m	145	91	78	77
Calcium	ppm	ASTM D5185m	3570	3262	2674	2716
Phosphorus	ppm	ASTM D5185m	1290	1148	1085	1006
Zinc	ppm	ASTM D5185m	1640	1295	1132	1090
Sulfur	ppm	ASTM D5185m		4706	4615	3349
Visc @ 40°C	cSt	ASTM D445	57.0	59.4	57.3	58.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0190043 **Received** : 20 Oct 2023
Lab Number : 05985830 **Tested** : 23 Oct 2023
Unique Number : 10708492 **Diagnosed** : 24 Oct 2023 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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 US 20111
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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)