



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 8 - Pikeville
Machine Id
JOHN DEERE 850K 1T0850KXHKF347740
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC004449	LEC0040522	LEC0038744
Sample Date		Client Info		26 Oct 2023	18 Apr 2023	31 Jan 2023
Machine Age	hrs	Client Info		3650	3067	2671
Oil Age	hrs	Client Info		3650	3067	2671
Filter Age	hrs	Client Info		583	396	2671
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	6	8	15
Iron	ppm	ASTM D5185m	>23	21	17	16
Chromium	ppm	ASTM D5185m	>9	3	3	2
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	5	4
Lead	ppm	ASTM D5185m	>28	<1	0	<1
Copper	ppm	ASTM D5185m	>51	6	5	4
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

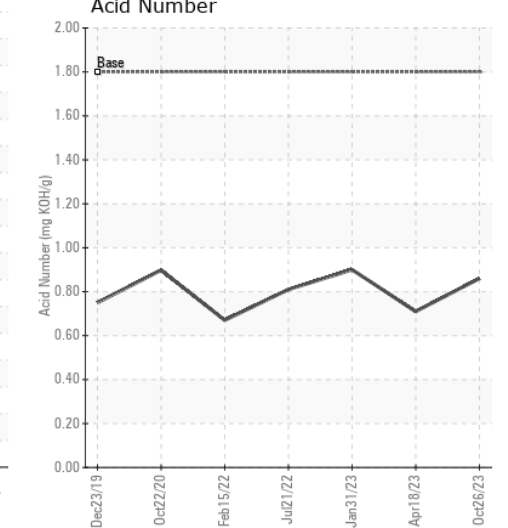
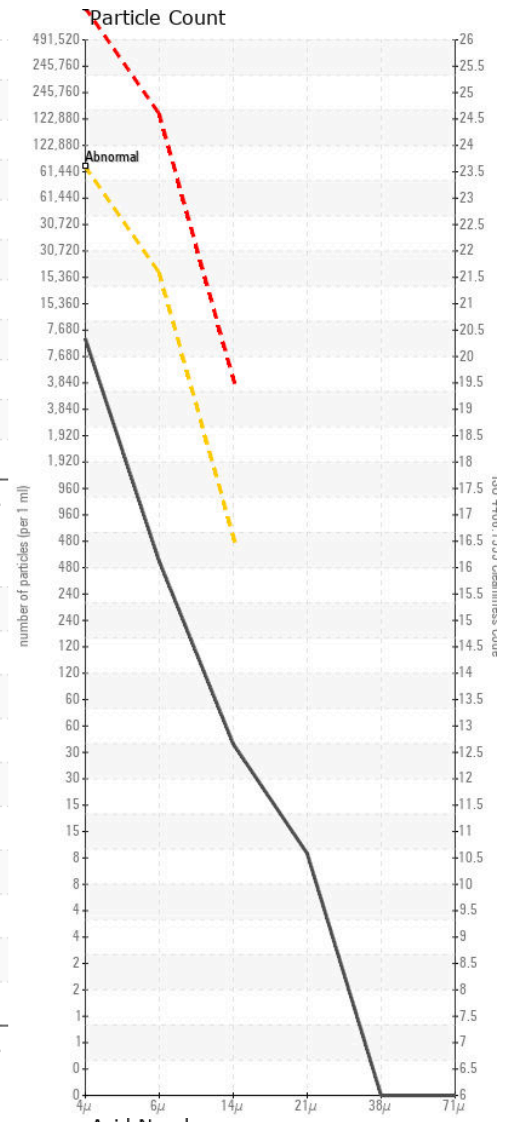
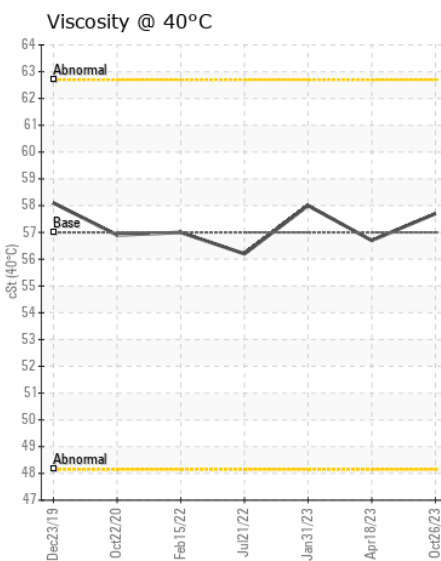
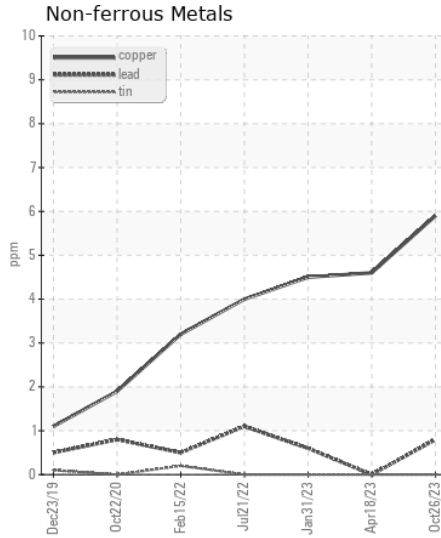
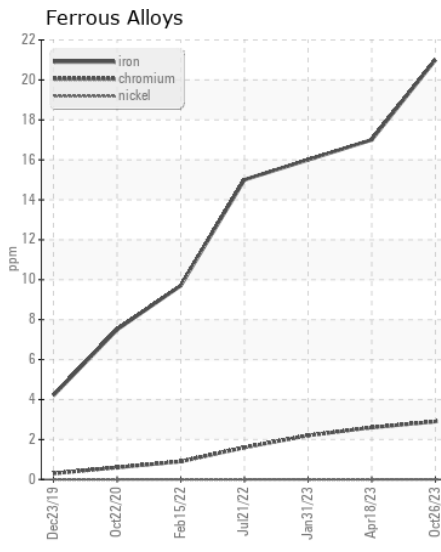
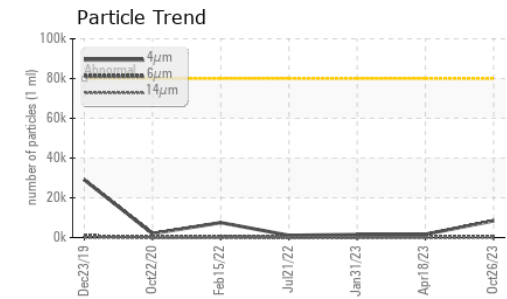
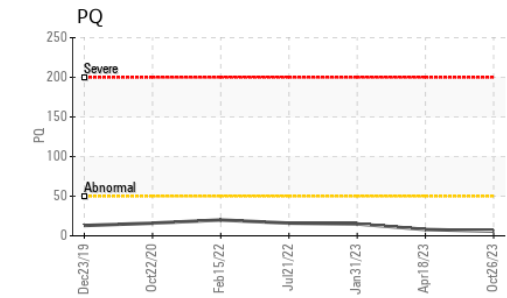
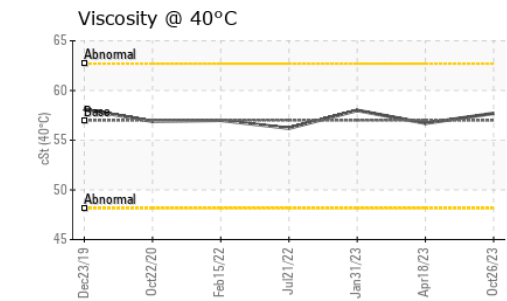
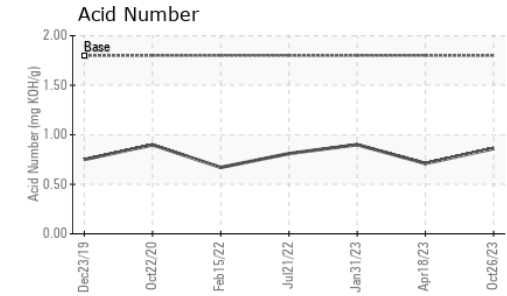
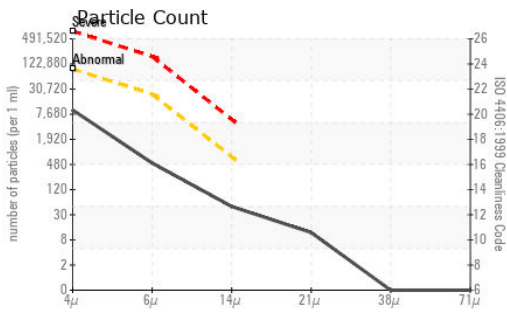
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	7	6	6
Potassium	ppm	ASTM D5185m	>20	5	2	1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	8430	1658	1534
Particles >6µm		ASTM D7647	>20000	458	170	56
Particles >14µm		ASTM D7647	>640	42	13	9
Particles >21µm		ASTM D7647	>160	10	2	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	20/16/13	18/15/11	18/13/10
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	0	1	<1
Boron	ppm	ASTM D5185m	6	35	36	36
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	10	10	10
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	145	41	45	42
Calcium	ppm	ASTM D5185m	3570	190	195	193
Phosphorus	ppm	ASTM D5185m	1290	618	602	563
Zinc	ppm	ASTM D5185m	1640	778	762	737
Sulfur	ppm	ASTM D5185m		1603	1870	1592
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.86	0.71	0.90
Visc @ 40°C	cSt	ASTM D445	57.0	57.7	56.7	58.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044449 **Received** : 02 Nov 2023
Lab Number : 05996611 **Tested** : 03 Nov 2023
Unique Number : 10724971 **Diagnosed** : 04 Nov 2023 - Don Baldrige
Test Package : CONST (Additional Tests: 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)