



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 9 - Marietta
Machine Id
JOHN DEERE 850K D3 (S/N 1T0850KXCHF318508)
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

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		LEC0047714	LEC0020852	LEC0015613
Sample Date		Client Info		31 Dec 2023	26 Apr 2021	09 Sep 2020
Machine Age	hrs	Client Info		6242	3627	3120
Oil Age	hrs	Client Info		6242	3627	3120
Filter Age	hrs	Client Info		1000	1000	500
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

PQ		ASTM D8184	>50	15	16	21
Iron	ppm	ASTM D5185m	>23	▲ 26	15	14
Chromium	ppm	ASTM D5185m	>9	▲ 18	12	11
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>9	4	4	0
Lead	ppm	ASTM D5185m	>28	<1	<1	1
Copper	ppm	ASTM D5185m	>51	7	4	4
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

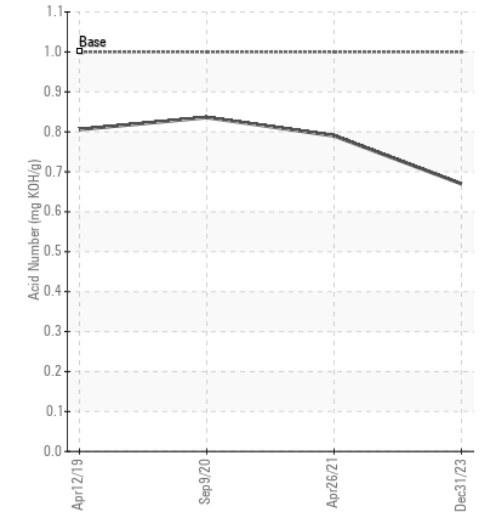
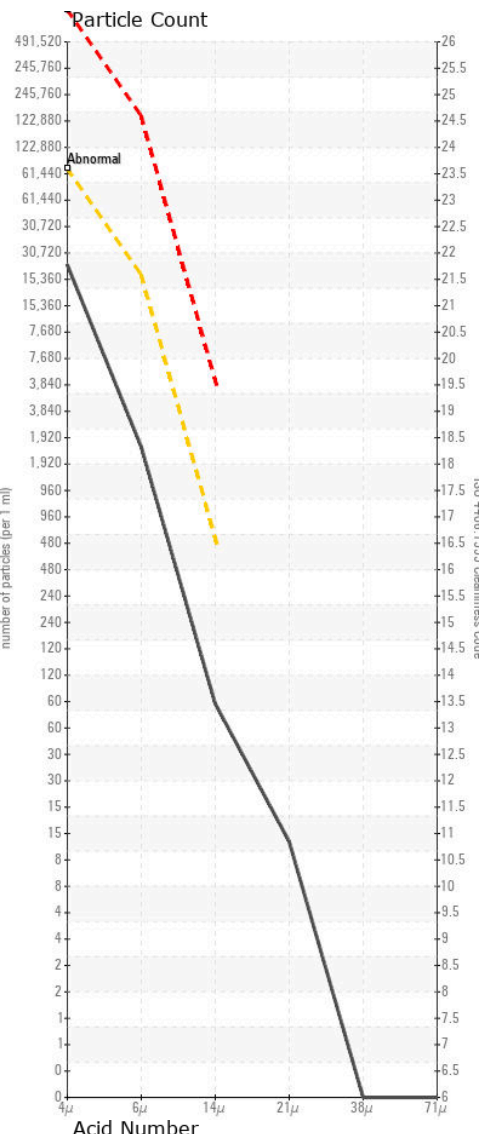
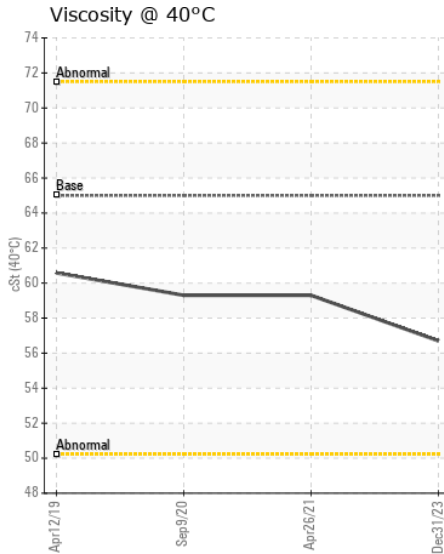
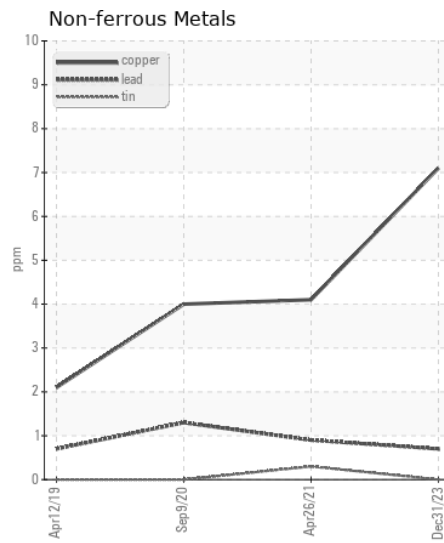
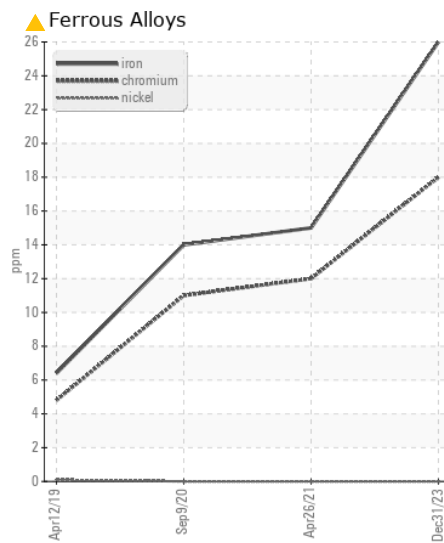
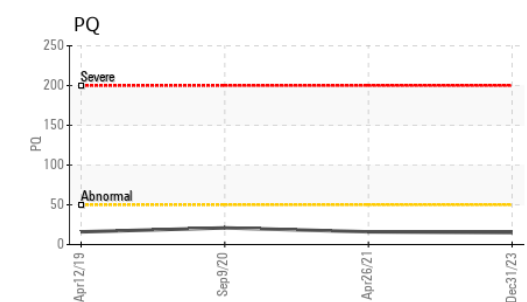
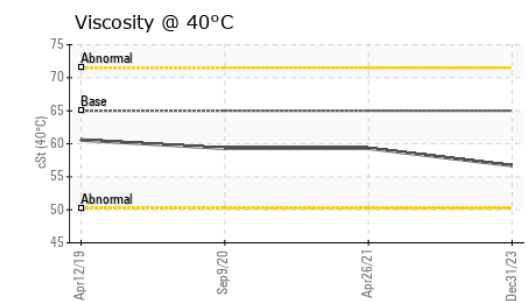
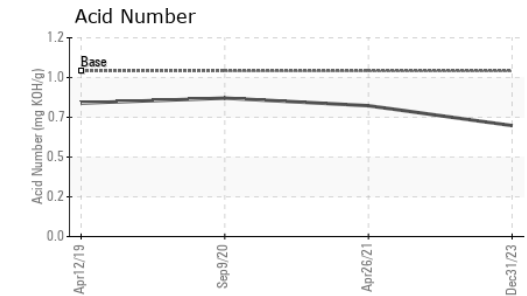
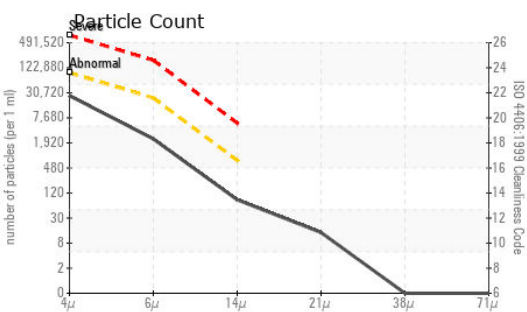
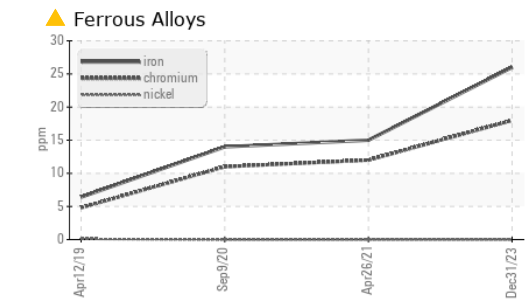
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	8	5	4
Potassium	ppm	ASTM D5185m	>20	3	2	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	22789	25936	6118
Particles >6µm		ASTM D7647	>20000	2099	1774	256
Particles >14µm		ASTM D7647	>640	73	43	32
Particles >21µm		ASTM D7647	>160	12	10	11
Particles >38µm		ASTM D7647	>40	0	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/18/13	22/18/13	20/15/12
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		0	2	2
Barium	ppm	ASTM D5185m		3	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	1	2
Calcium	ppm	ASTM D5185m	87	85	90	96
Phosphorus	ppm	ASTM D5185m	727	689	590	624
Zinc	ppm	ASTM D5185m	900	825	817	840
Sulfur	ppm	ASTM D5185m	1500	1948	1441	1489
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.67	0.790	0.836
Visc @ 40°C	cSt	ASTM D445	65	56.7	59.3	59.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047714 **Received** : 17 Jan 2024
Lab Number : 06063513 **Diagnosed** : 19 Jan 2024
Unique Number : 10834895 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

LANE PIPELINE
 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
 Contact: JESSE WILBURN
 jessewilburn@gmail.com
 T: (740)440-0927
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Certificate L2367
 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)