



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 850K 1T0850KXCDE246953
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (28 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046076	LEC0014003	LECP141593
Sample Date		Client Info		05 Jan 2024	06 Aug 2020	17 Sep 2014
Machine Age	hrs	Client Info		7289	5933	532
Oil Age	hrs	Client Info		7289	5933	532
Filter Age	hrs	Client Info		500	2000	532
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 for time on oil.

PQ		ASTM D8184	>50	27	23	14.0
Iron	ppm	ASTM D5185m	>23	24	20	4
Chromium	ppm	ASTM D5185m	>9	7	3	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		7	15	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>9	4	11	2
Lead	ppm	ASTM D5185m	>28	0	<1	<1
Copper	ppm	ASTM D5185m	>51	10	9	2
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

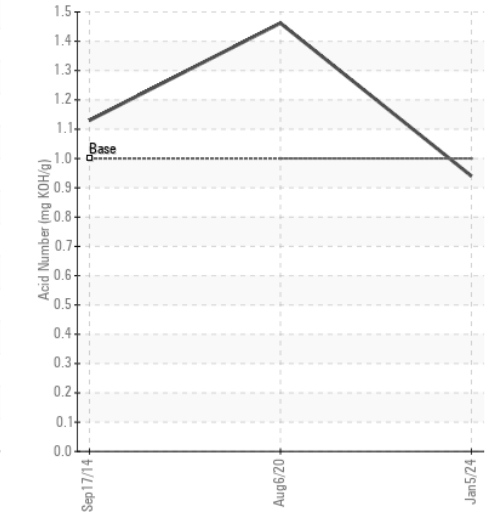
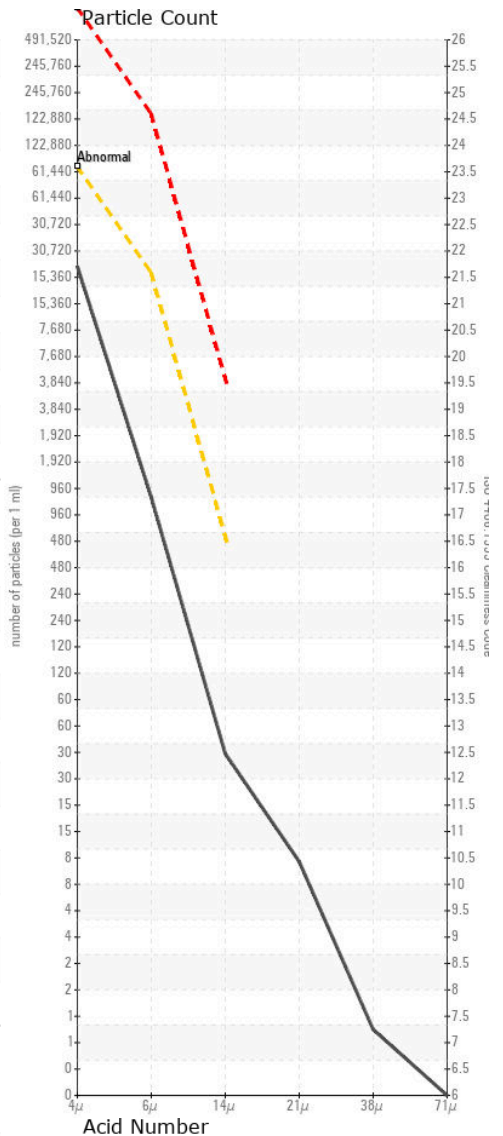
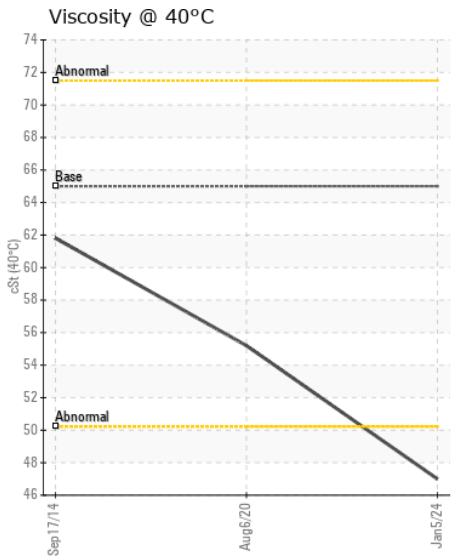
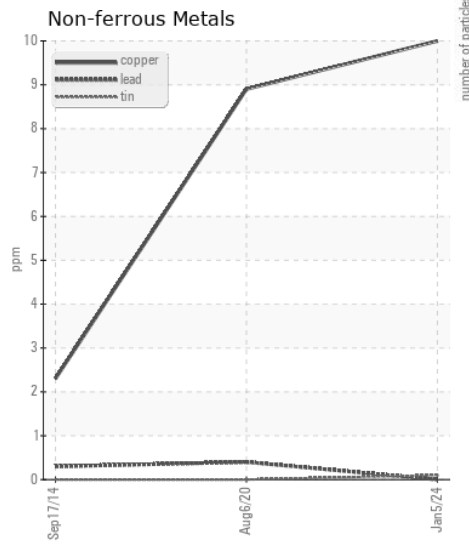
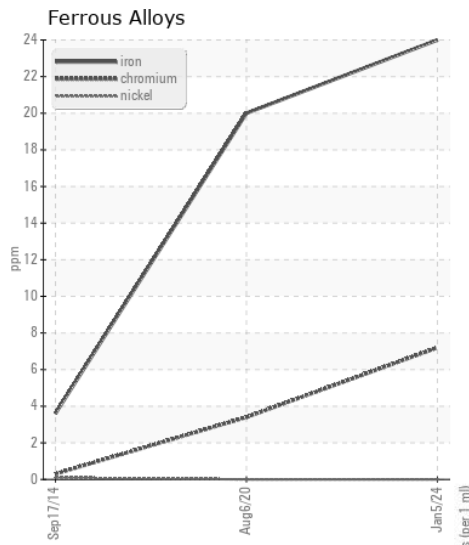
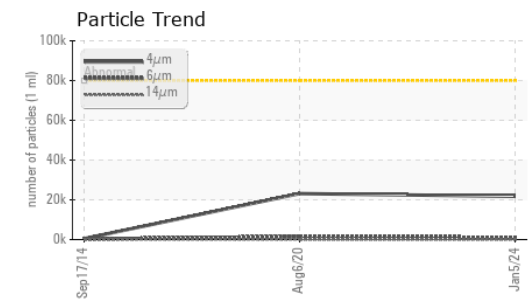
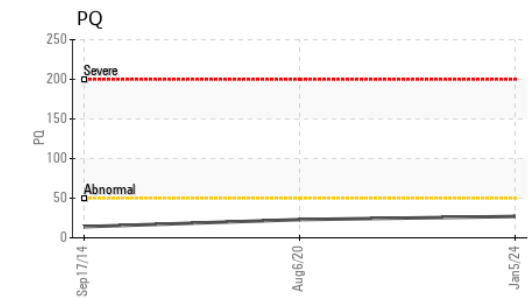
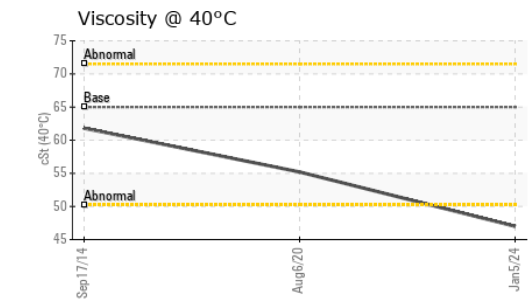
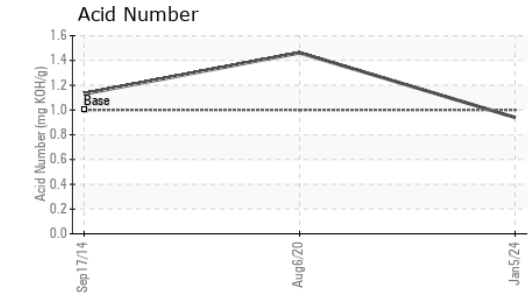
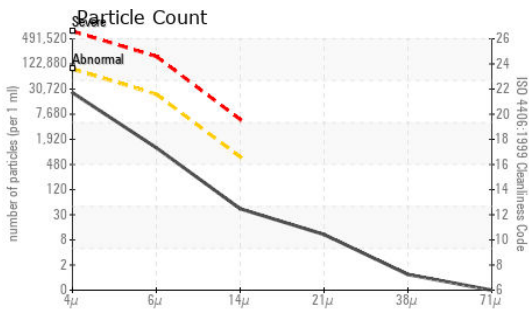
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	11	12	8
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	21766	23142	462
Particles >6µm		ASTM D7647	>20000	1059	1533	251
Particles >14µm		ASTM D7647	>640	37	60	42
Particles >21µm		ASTM D7647	>160	9	12	14
Particles >38µm		ASTM D7647	>40	1	1	2
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/17/12	22/18/13	16/15/13
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	1	2	3
Boron	ppm	ASTM D5185m		32	71	18
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		7	16	7
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		72	131	295
Calcium	ppm	ASTM D5185m	87	1207	2000	2467
Phosphorus	ppm	ASTM D5185m	727	562	799	1136
Zinc	ppm	ASTM D5185m	900	641	931	1411
Sulfur	ppm	ASTM D5185m	1500	1958	2488	3534
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.94	1.462	1.13
Visc @ 40°C	cSt	ASTM D445	65	47.0	55.2	61.81



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046076 **Received** : 10 Jan 2024
Lab Number : 06056582 **Diagnosed** : 11 Jan 2024
Unique Number : 10822531 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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)

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