



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 8 - Pikeville [152974]
Machine Id
JOHN DEERE 950K 1T0950KPLJF338554
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (23 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049153	LEC0048594	LEC0040886
Sample Date		Client Info		16 Jul 2024	19 Mar 2024	17 Oct 2023
Machine Age	hrs	Client Info		6158	5631	5080
Oil Age	hrs	Client Info		0	2745	2194
Filter Age	hrs	Client Info		0	1277	726
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	22	21	14
Iron	ppm	ASTM D5185m	>23	11	9	5
Chromium	ppm	ASTM D5185m	>9	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	3	2
Lead	ppm	ASTM D5185m	>28	0	2	<1
Copper	ppm	ASTM D5185m	>51	5	2	2
Tin	ppm	ASTM D5185m	>5	<1	3	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

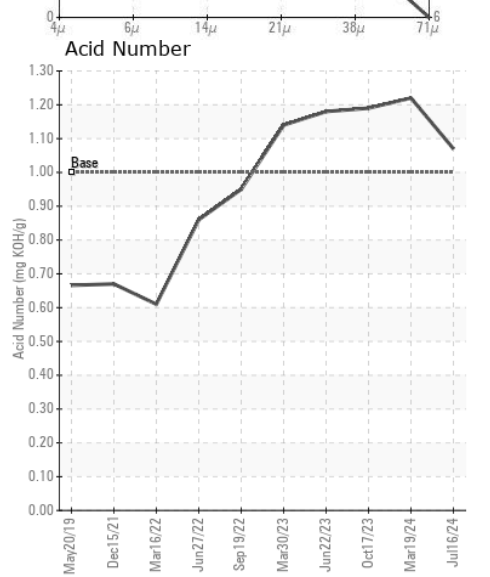
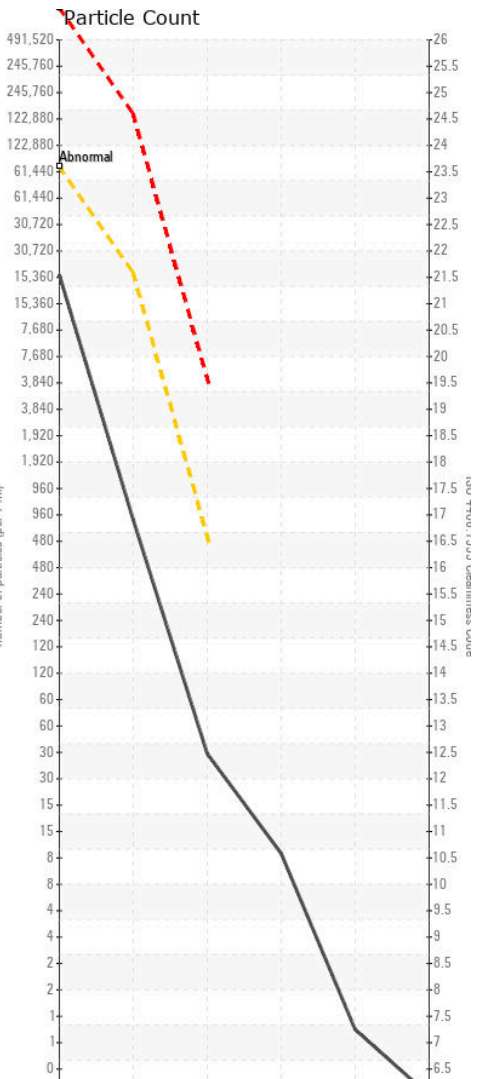
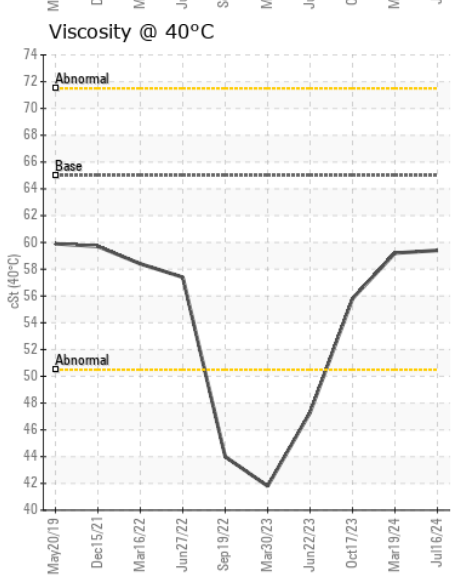
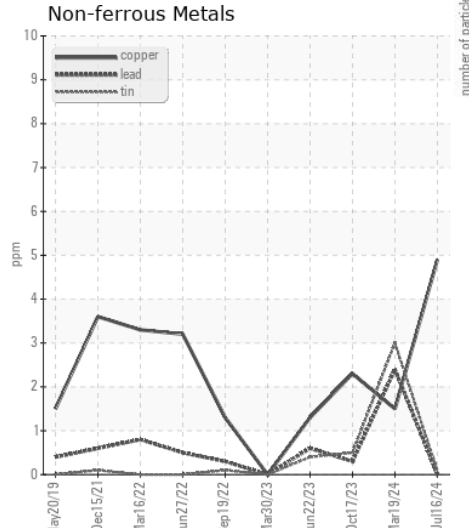
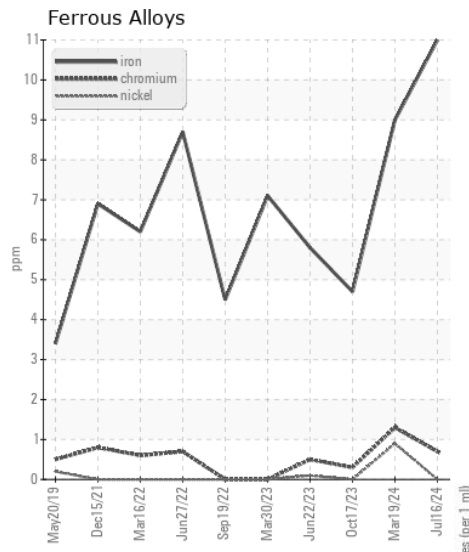
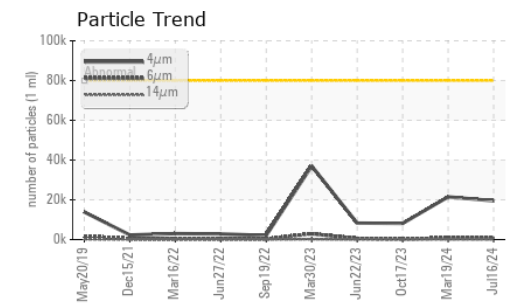
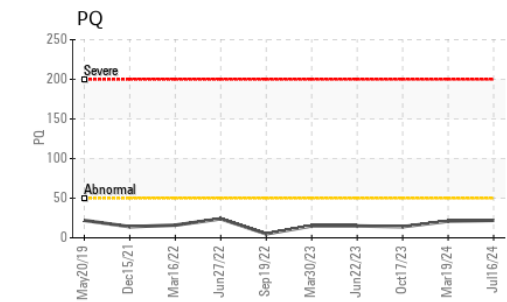
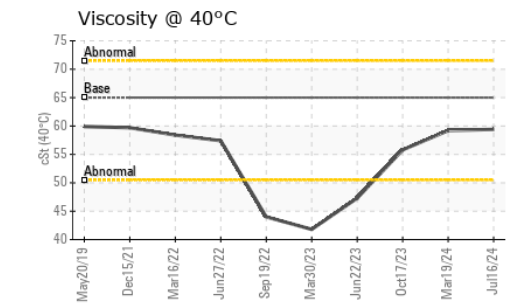
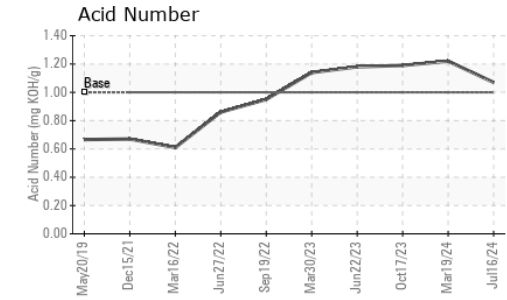
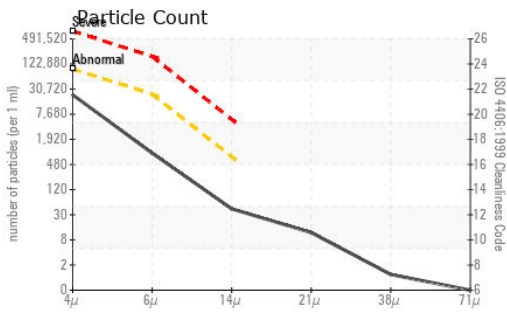
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	9	9	7
Potassium	ppm	ASTM D5185m	>20	5	4	3
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	19499	21498	8130
Particles >6µm		ASTM D7647	>20000	788	847	236
Particles >14µm		ASTM D7647	>640	37	62	12
Particles >21µm		ASTM D7647	>160	10	18	4
Particles >38µm		ASTM D7647	>40	1	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/17/12	22/17/13	20/15/11
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	4	4	4
Boron	ppm	ASTM D5185m		10	10	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		12	15	11
Manganese	ppm	ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m		129	129	112
Calcium	ppm	ASTM D5185m	87	2606	2648	2551
Phosphorus	ppm	ASTM D5185m	727	879	859	913
Zinc	ppm	ASTM D5185m	900	1056	989	1067
Sulfur	ppm	ASTM D5185m	1500	3862	3638	3437
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.07	1.22	1.19
Visc @ 40°C	cSt	ASTM D445	65	59.4	59.2	55.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049153 **Received** : 17 Jul 2024
Lab Number : 06239067 **Tested** : 18 Jul 2024
Unique Number : 11127901 **Diagnosed** : 18 Jul 2024 - Don Baldridge
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)