



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[16W16336]
 Machine Id
JOHN DEERE 850K 1T0850KXKCE220162
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (28 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W16336)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207102	JR0173429	---
Sample Date		Client Info		30 May 2024	04 Aug 2023	---
Machine Age	hrs	Client Info		8301	7750	---
Oil Age	hrs	Client Info		551	1400	---
Filter Age	hrs	Client Info		551	1400	---
Oil Changed		Client Info		Not Chngd	Changed	---
Filter Changed		Client Info		Not Chngd	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	18	18	---
Iron	ppm	ASTM D5185m	>23	3	11	---
Chromium	ppm	ASTM D5185m	>9	2	5	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>9	1	3	---
Lead	ppm	ASTM D5185m	>28	0	0	---
Copper	ppm	ASTM D5185m	>51	5	8	---
Tin	ppm	ASTM D5185m	>5	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

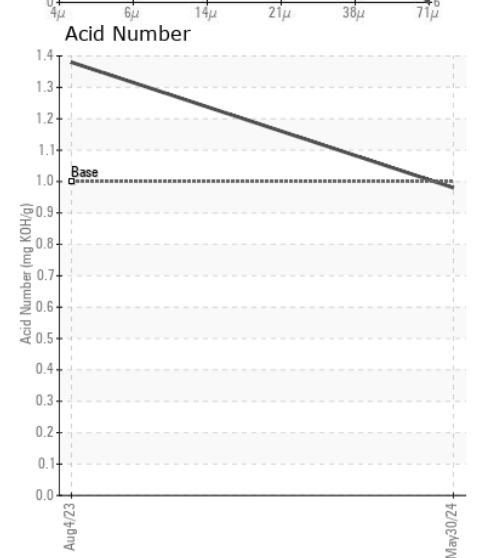
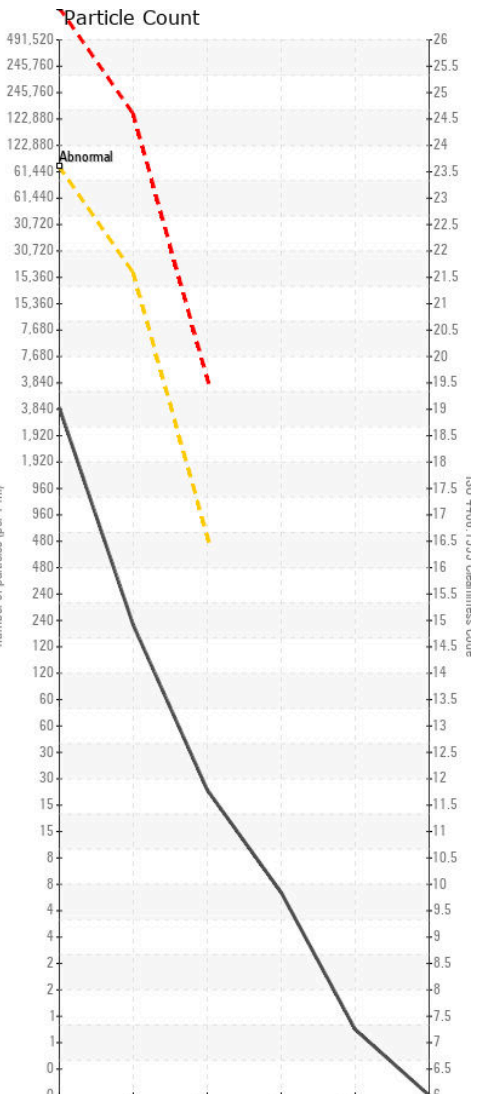
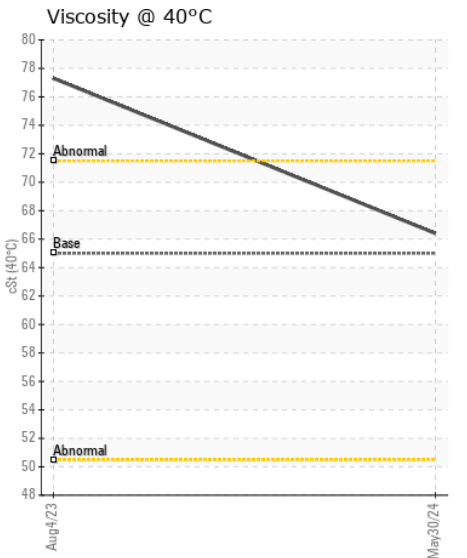
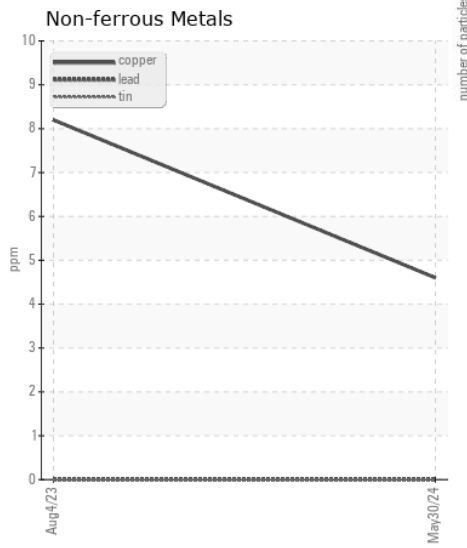
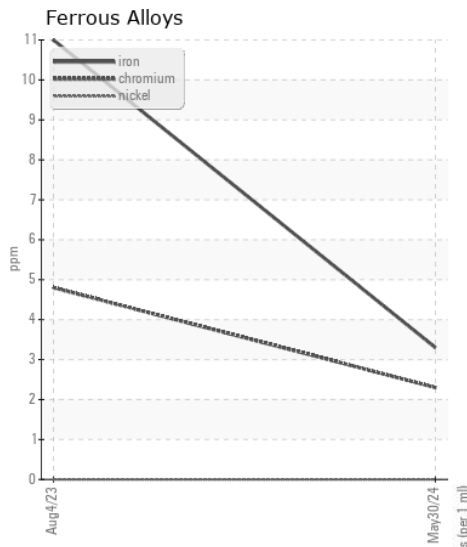
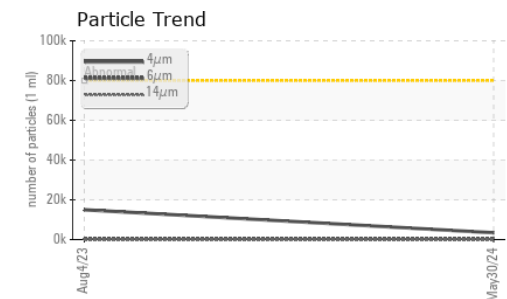
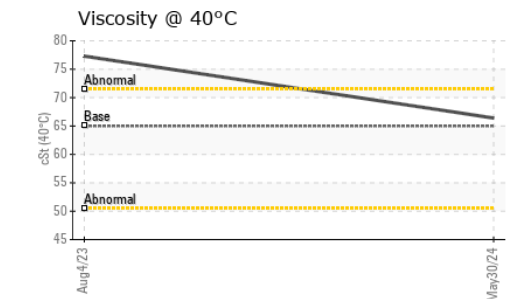
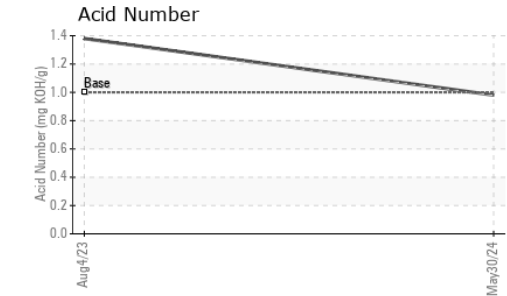
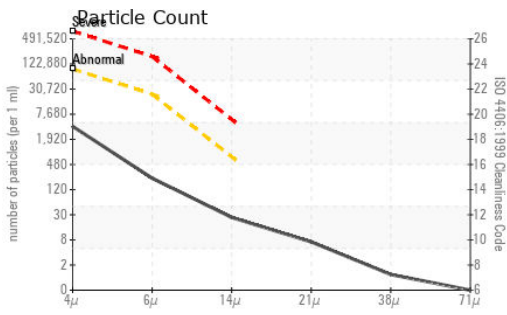
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	<1	6	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	3422	15004	---
Particles >6µm		ASTM D7647	>20000	199	259	---
Particles >14µm		ASTM D7647	>640	23	13	---
Particles >21µm		ASTM D7647	>160	6	3	---
Particles >38µm		ASTM D7647	>40	1	0	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	19/15/12	21/15/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	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	<1	---
Boron	ppm	ASTM D5185m		48	112	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		32	35	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		172	382	---
Calcium	ppm	ASTM D5185m	87	611	1562	---
Phosphorus	ppm	ASTM D5185m	727	774	862	---
Zinc	ppm	ASTM D5185m	900	920	1014	---
Sulfur	ppm	ASTM D5185m	1500	2436	3400	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.98	1.38	---
Visc @ 40°C	cSt	ASTM D445	65	66.4	77.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207102 **Received** : 03 Jun 2024
Lab Number : 06197551 **Tested** : 04 Jun 2024
Unique Number : 11059674 **Diagnosed** : 04 Jun 2024 - 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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