



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W66998]
 Machine Id
JOHN DEERE 850K 1T0850KXJHF323603
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (20 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W66998)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215461	JR0188486	JR0178766
Sample Date		Client Info		09 May 2024	07 Dec 2023	10 Aug 2023
Machine Age	hrs	Client Info		7483	7035	6546
Oil Age	hrs	Client Info		6450	6491	544
Filter Age	hrs	Client Info		0	0	0
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	16	17	15
Iron	ppm	ASTM D5185m	>23	5	0	4
Chromium	ppm	ASTM D5185m	>9	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	0	3
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>51	2	0	2
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

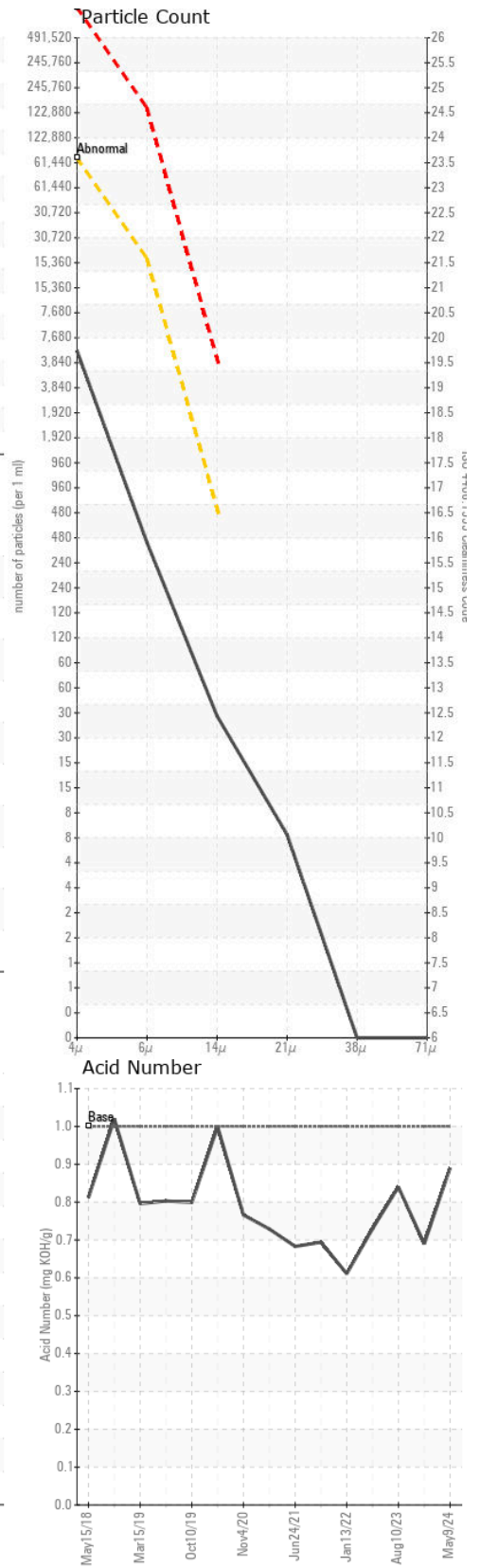
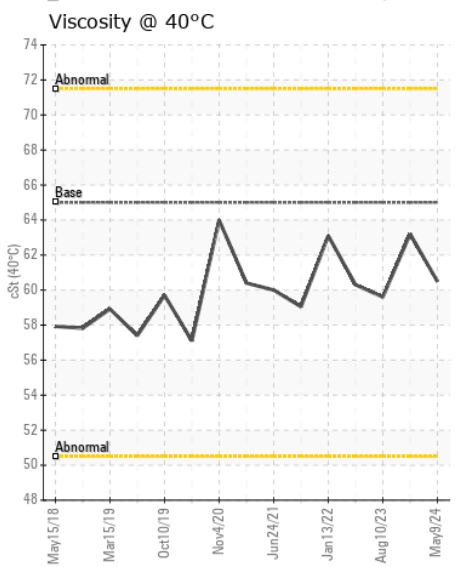
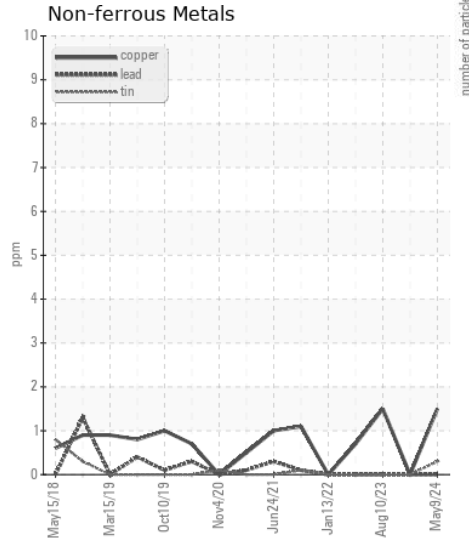
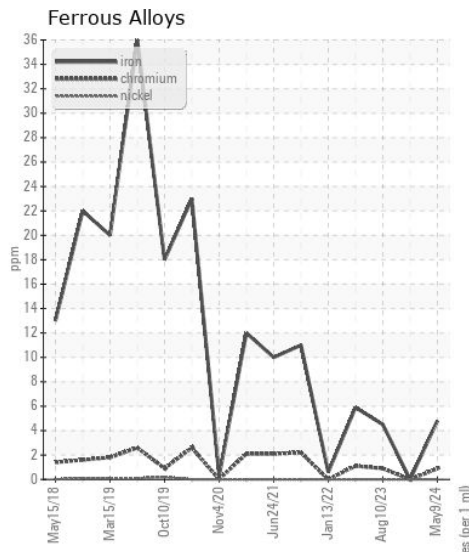
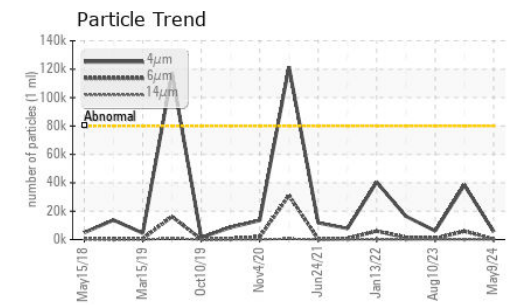
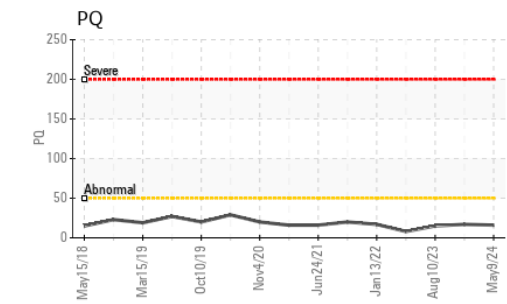
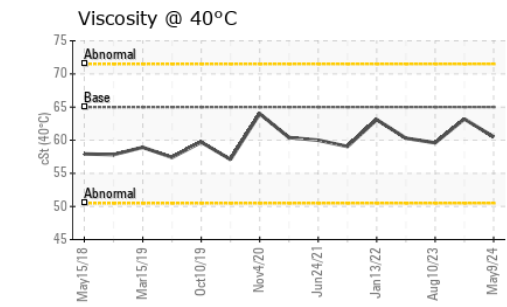
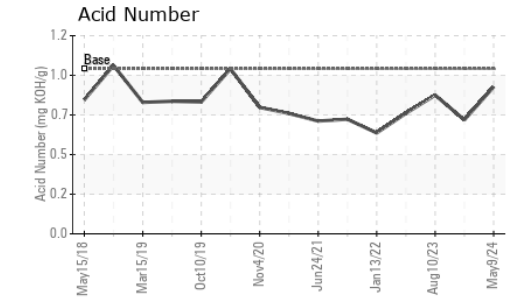
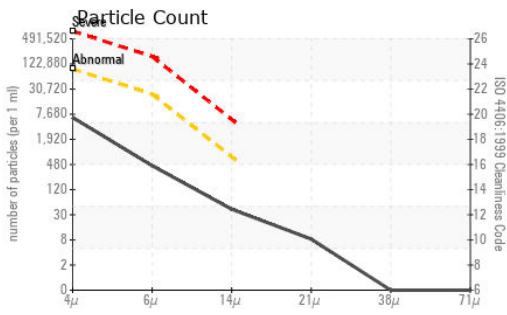
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	4	<1	4
Potassium	ppm	ASTM D5185m	>20	3	0	1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	5597	38366	6082
Particles >6µm		ASTM D7647	>20000	395	5868	858
Particles >14µm		ASTM D7647	>640	36	122	129
Particles >21µm		ASTM D7647	>160	7	25	53
Particles >38µm		ASTM D7647	>40	0	0	2
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/16/12	22/20/14	20/17/14
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	0	1
Boron	ppm	ASTM D5185m		0	3	2
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		2	4	4
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		7	5	19
Calcium	ppm	ASTM D5185m	87	141	102	114
Phosphorus	ppm	ASTM D5185m	727	1048	695	606
Zinc	ppm	ASTM D5185m	900	1297	847	816
Sulfur	ppm	ASTM D5185m	1500	2702	1630	1810
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.89	0.69	0.84
Visc @ 40°C	cSt	ASTM D445	65	60.5	63.2	59.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215461 **Received** : 10 May 2024
Lab Number : 06175371 **Tested** : 14 May 2024
Unique Number : 11021424 **Diagnosed** : 14 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FT-IR, KV100, PQ, PrtCount)

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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)