



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 8 - Pikeville [RO#144822]
Machine Id
1T0950KPHJF335977
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		LEC0045393	LEC0040907	LEC0039523
Sample Date		Client Info		01 Nov 2023	21 Jun 2023	02 Mar 2023
Machine Age	hrs	Client Info		3748	3174	2664
Oil Age	hrs	Client Info		3748	3174	2664
Filter Age	hrs	Client Info		1687	1113	603
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	14	11	13
Iron	ppm	ASTM D5185m	>23	13	12	12
Chromium	ppm	ASTM D5185m	>9	<1	2	2
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		2	0	0
Aluminum	ppm	ASTM D5185m	>9	1	3	3
Lead	ppm	ASTM D5185m	>28	0	0	<1
Copper	ppm	ASTM D5185m	>51	2	2	5
Tin	ppm	ASTM D5185m	>5	0	0	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

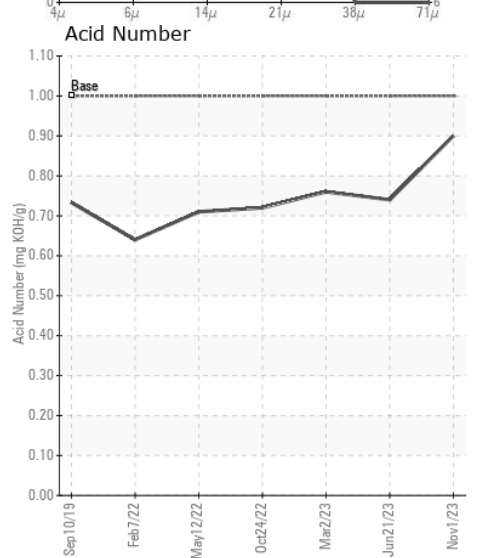
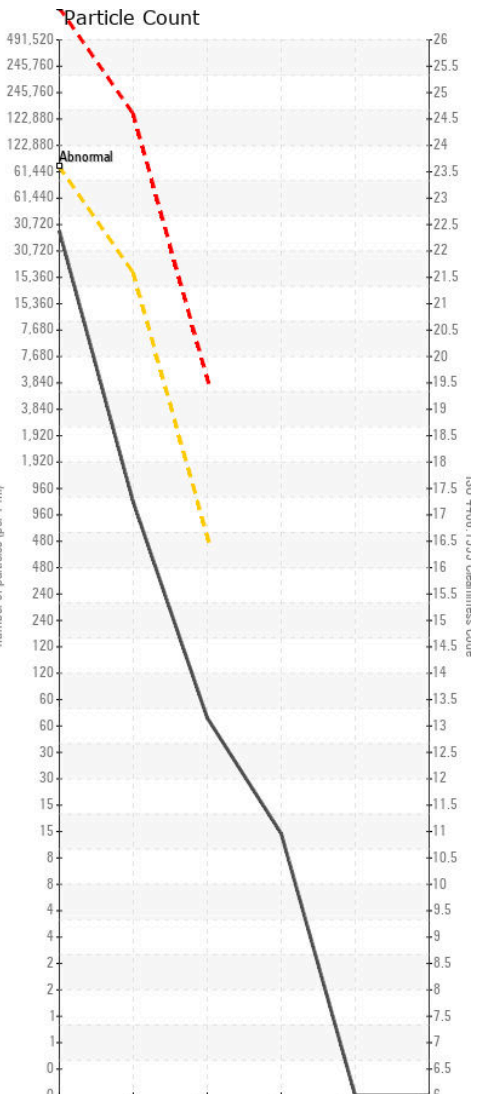
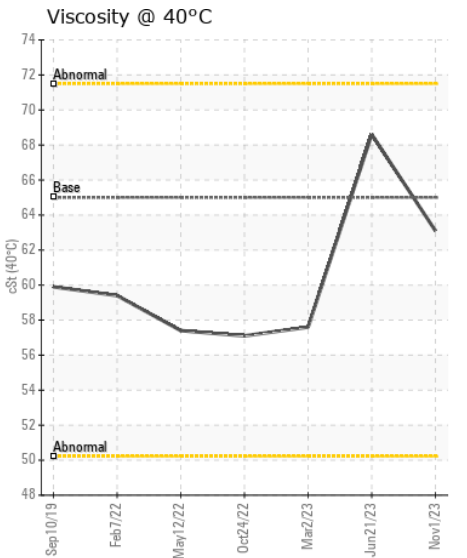
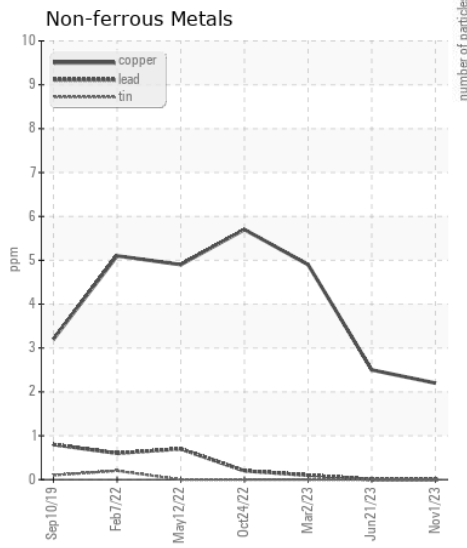
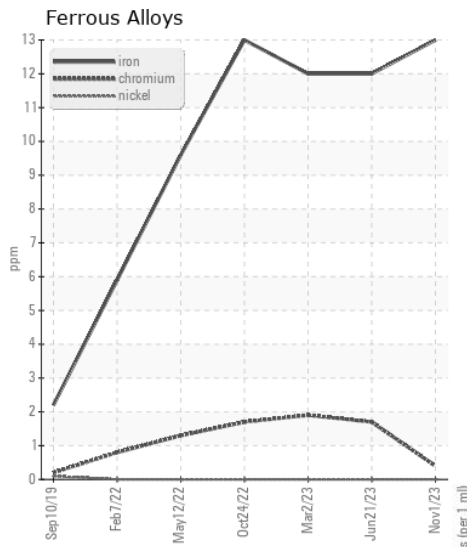
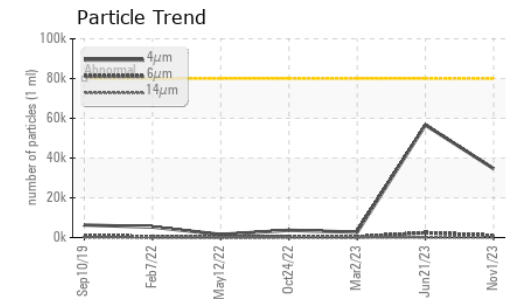
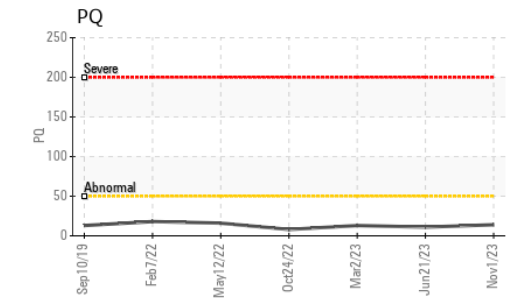
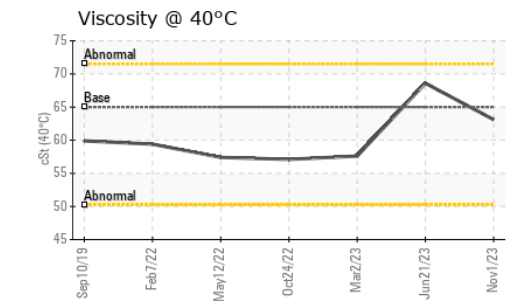
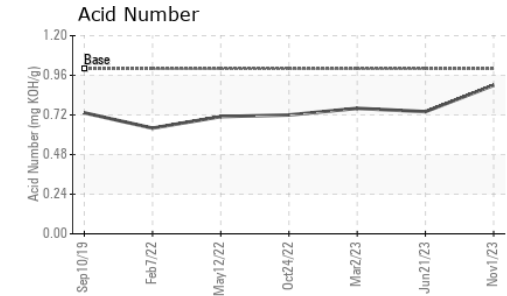
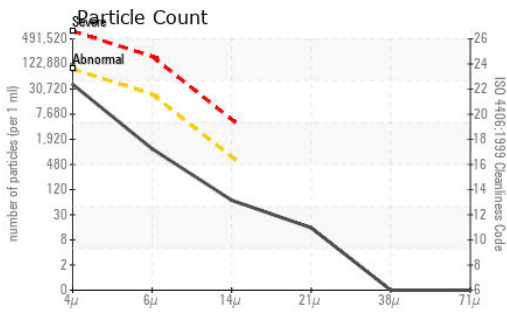
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>31	6	7	6
Potassium	ppm	ASTM D5185m	>20	0	1	1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	34640	56648	2691
Particles >6µm		ASTM D7647	>20000	994	2426	333
Particles >14µm		ASTM D7647	>640	59	44	26
Particles >21µm		ASTM D7647	>160	13	12	7
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/17/13	23/18/13	19/16/12
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	1	1	1
Boron	ppm	ASTM D5185m		3	2	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	4	5
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		23	29	25
Calcium	ppm	ASTM D5185m	87	1764	1573	186
Phosphorus	ppm	ASTM D5185m	727	717	778	561
Zinc	ppm	ASTM D5185m	900	858	1040	790
Sulfur	ppm	ASTM D5185m	1500	2407	3473	1686
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.90	0.74	0.76
Visc @ 40°C	cSt	ASTM D445	65	63.1	68.6	57.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0045393 **Received** : 06 Nov 2023
Lab Number : 05998979 **Tested** : 07 Nov 2023
Unique Number : 10727339 **Diagnosed** : 07 Nov 2023 - Wes Davis
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)