



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 5 - Cross Lanes [RO#144384]
Machine Id
JOHN DEERE 950K 1T0950KPKHF317786
Component
Hydrostatic
Fluid
JOHN DEERE HYDRAU (39 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0045335	LEC0042584	LEC0037616
Sample Date		Client Info		27 Oct 2023	07 Aug 2023	17 Feb 2023
Machine Age	hrs	Client Info		4273	3563	2858
Oil Age	hrs	Client Info		2040	1330	625
Filter Age	hrs	Client Info		2040	1330	625
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	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>31	22	20	20
Chromium	ppm	ASTM D5185m	>9	0	0	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>11	2	4	<1
Copper	ppm	ASTM D5185m	>41	11	14	11
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

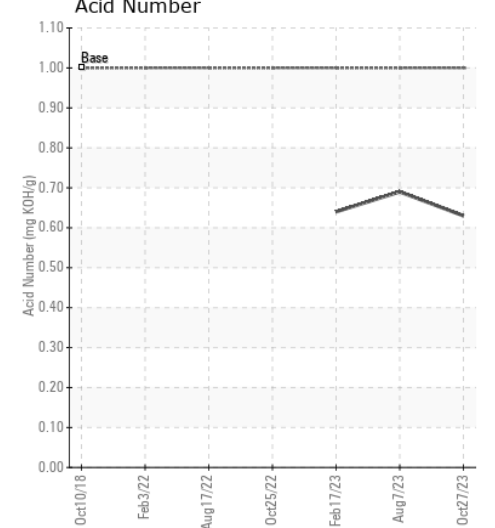
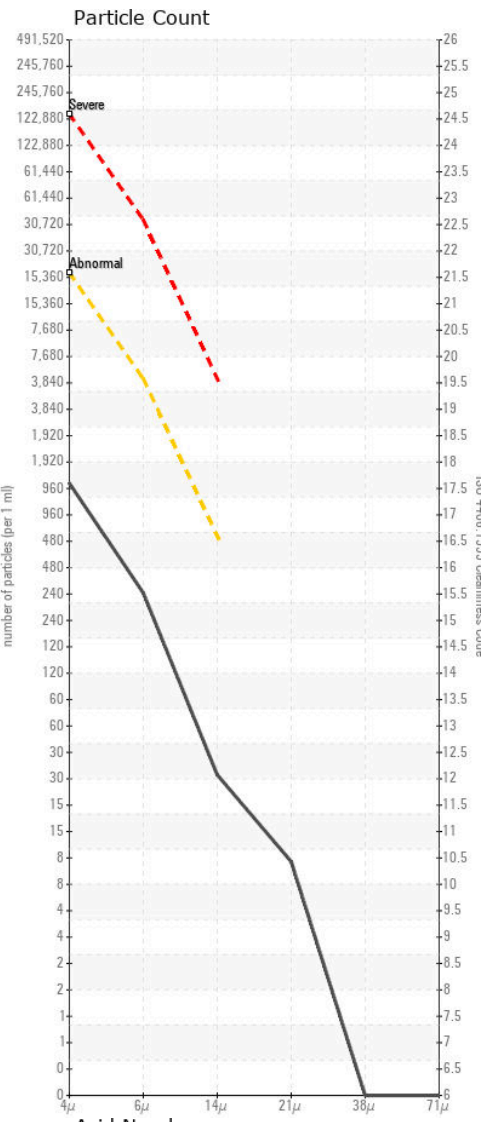
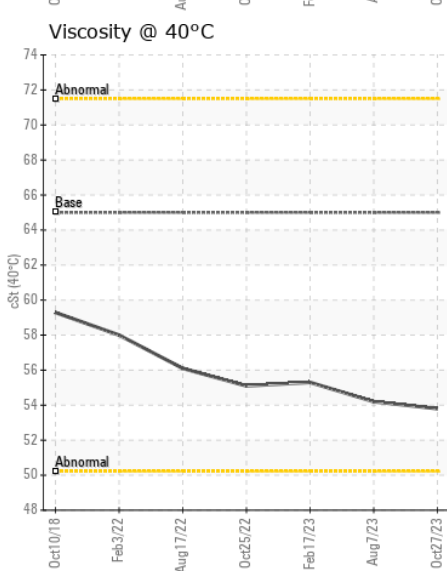
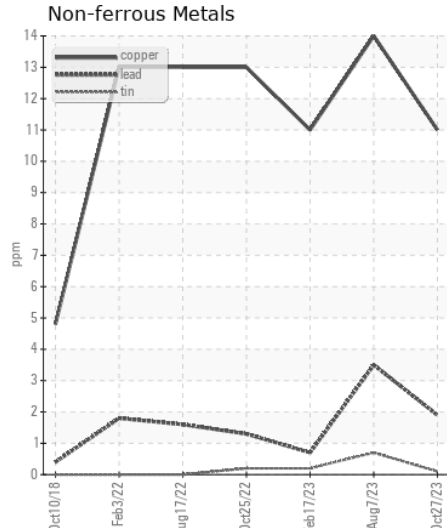
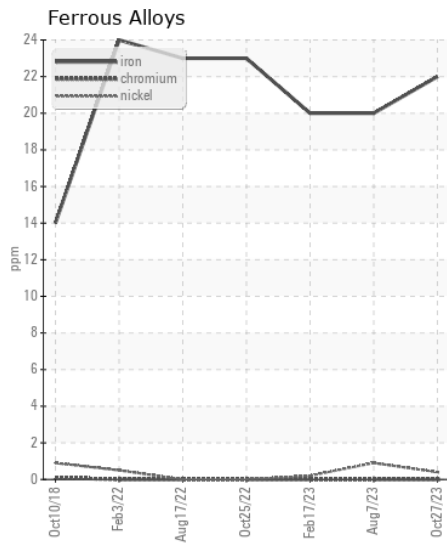
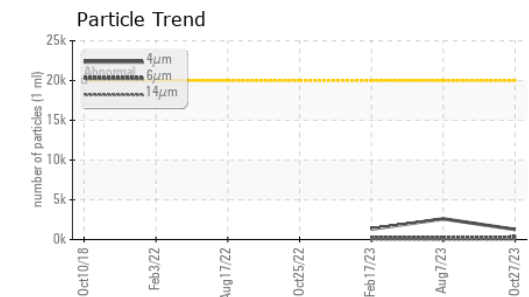
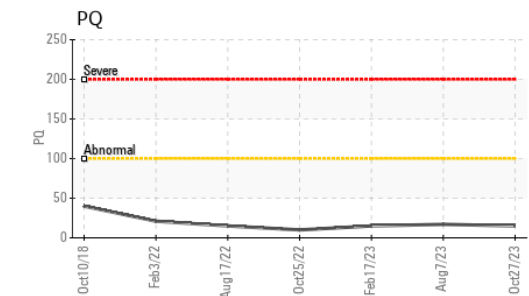
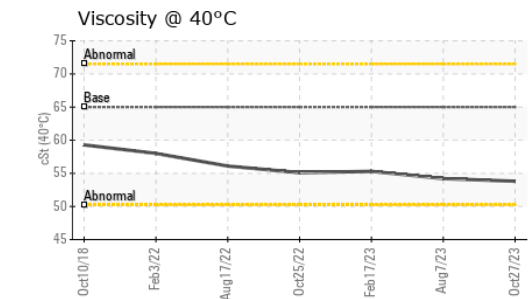
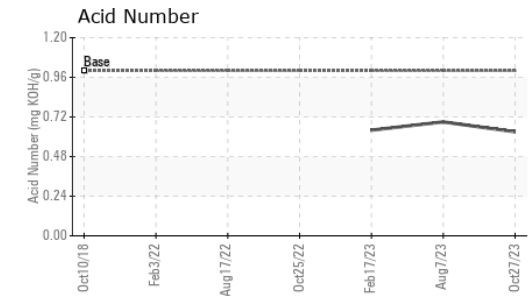
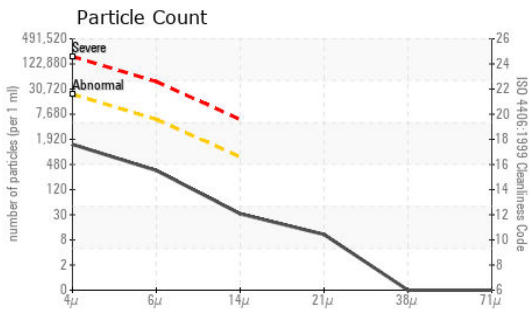
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<1	2	<1
Potassium	ppm	ASTM D5185m	>20	2	5	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	1274	2609	1327
Particles >6µm		ASTM D7647	>5000	303	201	231
Particles >14µm		ASTM D7647	>640	28	8	16
Particles >21µm		ASTM D7647	>160	9	2	3
Particles >38µm		ASTM D7647	>40	0	1	1
Particles >71µm		ASTM D7647	>10	0	1	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	17/15/12	19/15/10	18/15/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.1	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	5	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	2	<1
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m		2	<1	<1
Calcium	ppm	ASTM D5185m	87	80	70	81
Phosphorus	ppm	ASTM D5185m	727	619	563	591
Zinc	ppm	ASTM D5185m	900	795	709	736
Sulfur	ppm	ASTM D5185m	1500	1531	1727	1754
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.63	0.69	0.64
Visc @ 40°C	cSt	ASTM D445	65	53.8	54.2	55.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0045335 **Received** : 03 Nov 2023
Lab Number : 05997894 **Diagnosed** : 06 Nov 2023
Unique Number : 10726254 **Diagnostician** : Don Baldridge
Test Package : CONST (Additional Tests: PQ, PrtCount)

APEX PIPELINE
 P.O. BOX 580
 NITRO, WV
 US 25143
 Contact: KELLY TUCKER

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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