



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 8 - Pikeville
Machine Id
JOHN DEERE 300G 1FF300GXKLF731736
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (77 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: CHECK FOR CROSS CONTAMINATION/ WRONG FLUID TYPE)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0050860	LEC0043320	LEC0037750
Sample Date		Client Info		18 Jun 2024	01 Dec 2023	16 Feb 2023
Machine Age	hrs	Client Info		1923	1507	1182
Oil Age	hrs	Client Info		1923	1507	1182
Filter Age	hrs	Client Info		416	325	1182
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	16	11	16
Iron	ppm	ASTM D5185m	>32	5	2	3
Chromium	ppm	ASTM D5185m	>9	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	0	0
Lead	ppm	ASTM D5185m	>28	<1	0	<1
Copper	ppm	ASTM D5185m	>50	<1	0	1
Tin	ppm	ASTM D5185m	>5	<1	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

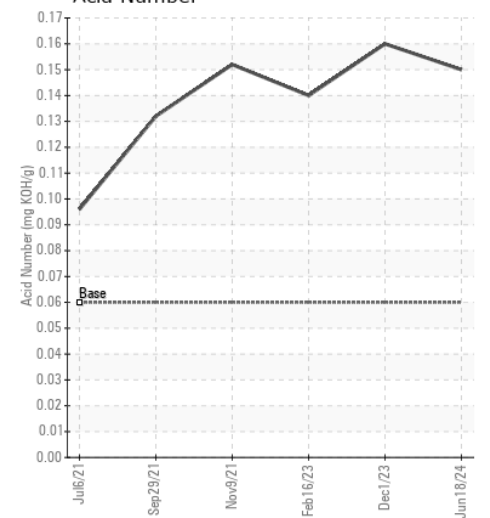
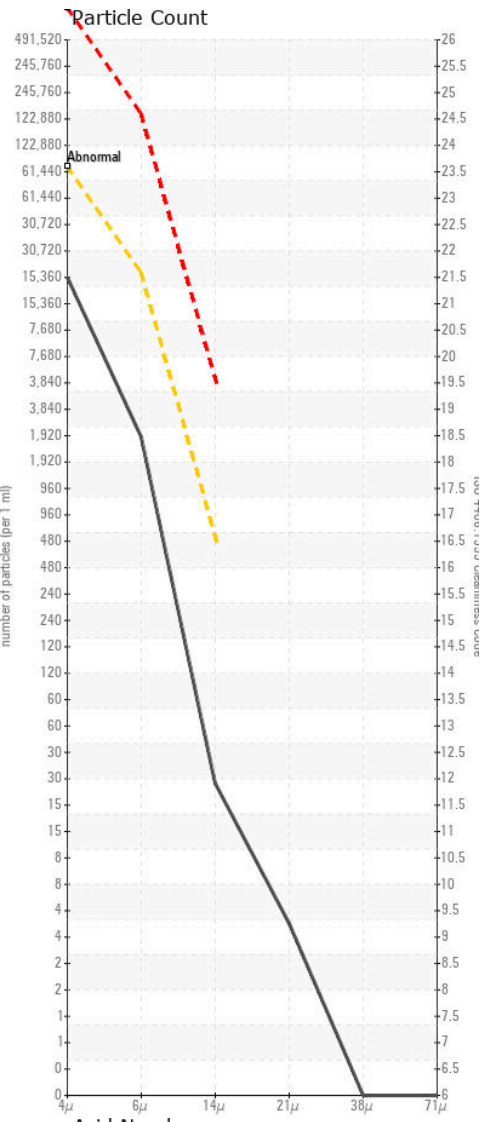
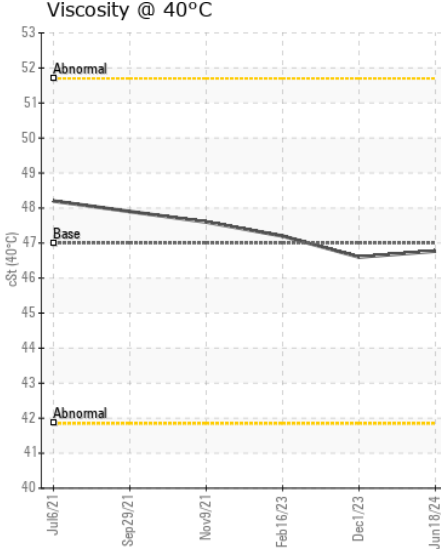
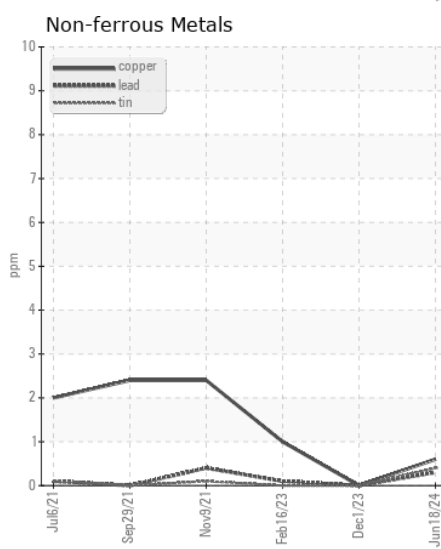
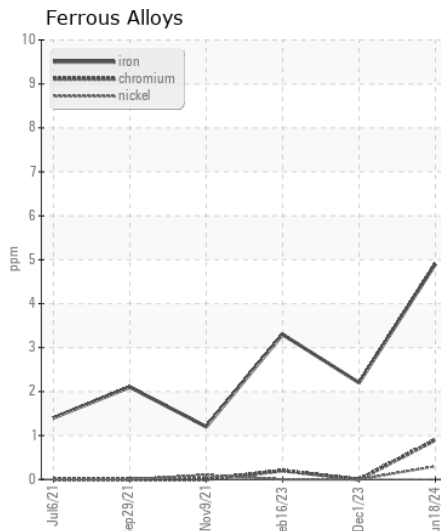
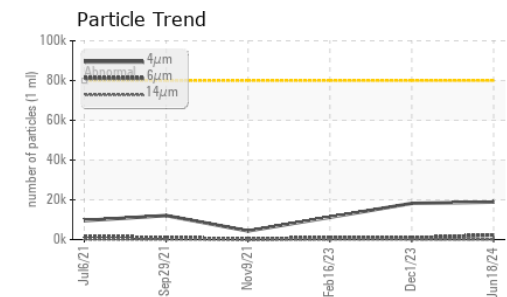
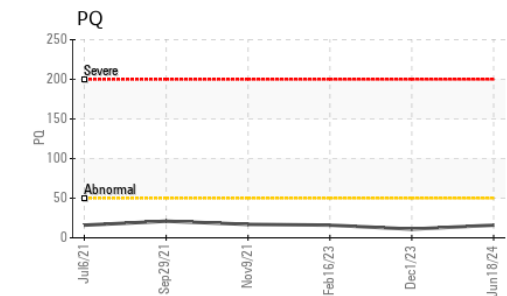
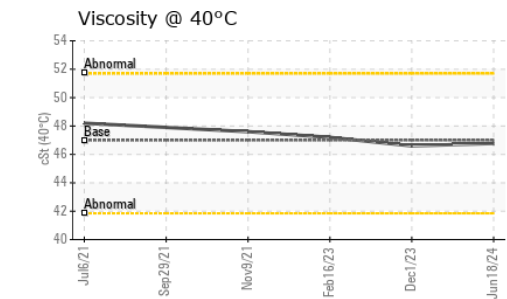
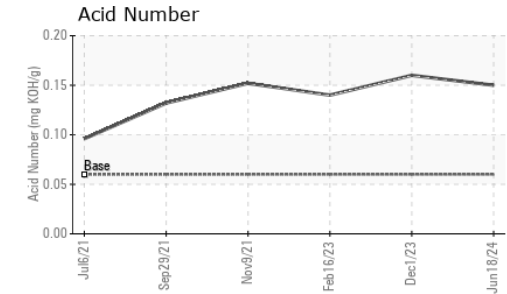
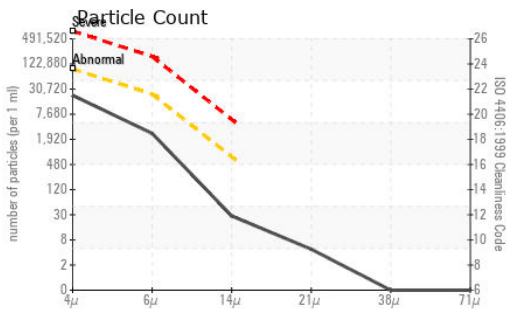
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>11	1	1	1
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water	%	ASTM D6304	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	18857	18224	11216
Particles >6µm		ASTM D7647	>20000	2323	750	945
Particles >14µm		ASTM D7647	>640	25	18	21
Particles >21µm		ASTM D7647	>160	4	8	3
Particles >38µm		ASTM D7647	>40	0	1	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/18/12	21/17/11	21/17/12
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

Additive levels do not indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	0	0	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	2
Calcium	ppm	ASTM D5185m		0	2	6
Phosphorus	ppm	ASTM D5185m	827	507	492	496
Zinc	ppm	ASTM D5185m	0	22	24	32
Sulfur	ppm	ASTM D5185m	13	4	113	148
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.15	0.16	0.14
Visc @ 40°C	cSt	ASTM D445	47	46.77	46.6	47.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050860 **Received** : 20 Jun 2024
Lab Number : 06216269 **Tested** : 20 Jun 2024
Unique Number : 11089133 **Diagnosed** : 20 Jun 2024 - Doug Bogart
Test Package : CONST (Additional Tests: KF, 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)