CONST

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
Store 8 - Pikeville
Machine Id
JOHN DEERE 350G 1FF350GXCJF812424
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (77 GAL)

RECOMMENDATION

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

WEAR

All component wear rates are normal.

CONTAMINATION

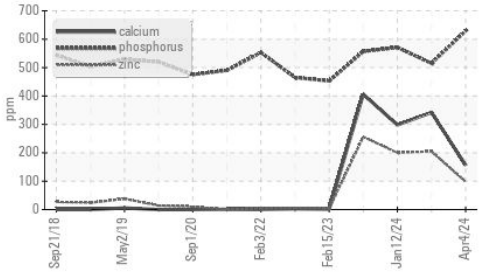
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

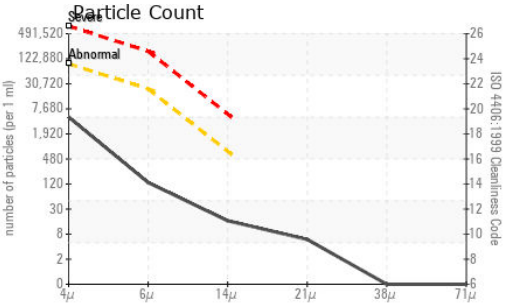
Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049676	LEC0042708	LEC0047298
Sample Date		Client Info		04 Apr 2024	24 Jan 2024	12 Jan 2024
Machine Age	hrs	Client Info		4464	4386	4343
Oil Age	hrs	Client Info		78	4386	4343
Filter Age	hrs	Client Info		4464	1373	1192
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>50	12	16	16
Iron	ppm	ASTM D5185m	>32	16	32	31
Chromium	ppm	ASTM D5185m	>9	5	9	8
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	2	2	3
Lead	ppm	ASTM D5185m	>28	0	<1	0
Copper	ppm	ASTM D5185m	>50	6	11	9
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
Silicon	ppm	ASTM D5185m	>11	3	8	8
Potassium	ppm	ASTM D5185m	>20	2	4	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	4272	43389	72571
Particles >6µm		ASTM D7647	>20000	115	1064	4644
Particles >14µm		ASTM D7647	>640	14	11	14
Particles >21µm		ASTM D7647	>160	5	3	3
Particles >38µm		ASTM D7647	>40	0	0	1
Particles >71µm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>23/21/16	19/14/11	23/17/11	23/19/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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
Sodium	ppm	ASTM D5185m	>21	0	0	2
Boron	ppm	ASTM D5185m		5	13	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		6	13	9
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		28	62	61
Calcium	ppm	ASTM D5185m		156	342	298
Phosphorus	ppm	ASTM D5185m	827	629	515	571
Zinc	ppm	ASTM D5185m	0	▲ 98	▲ 205	▲ 200
Sulfur	ppm	ASTM D5185m	13	474	1063	952
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.21	0.38	0.31
Visc @ 40°C	cSt	ASTM D445	47	45.9	43.9	43.9

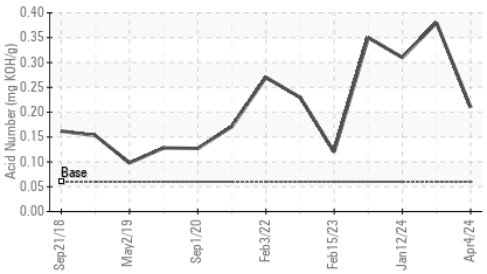
Additives



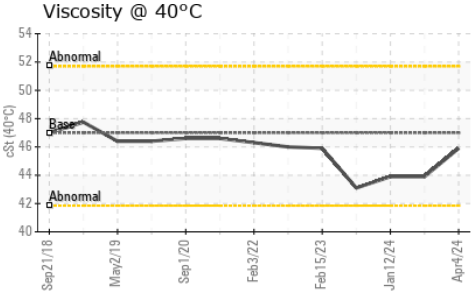
Particle Count



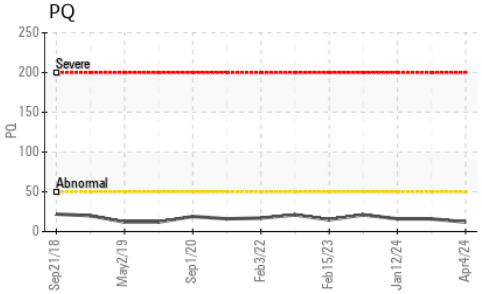
Acid Number



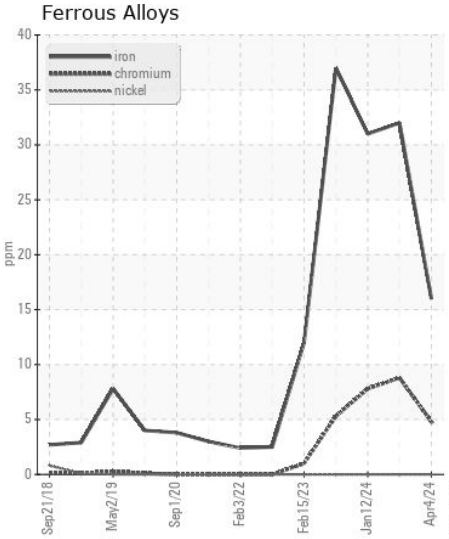
Viscosity @ 40°C



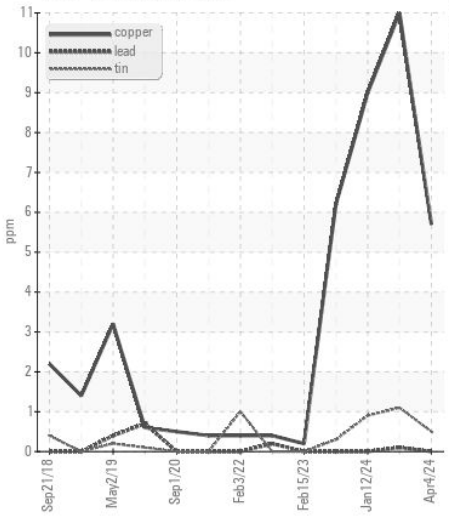
PQ



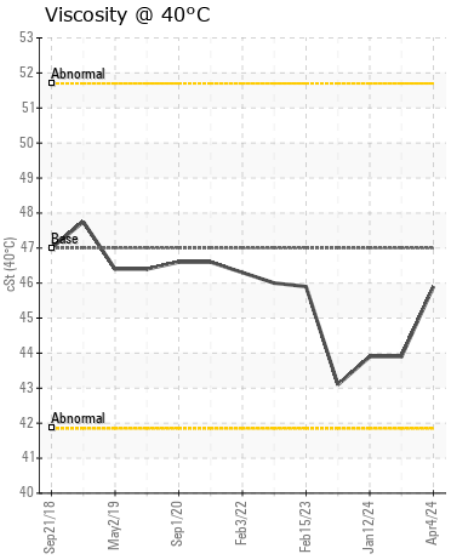
Ferrous Alloys



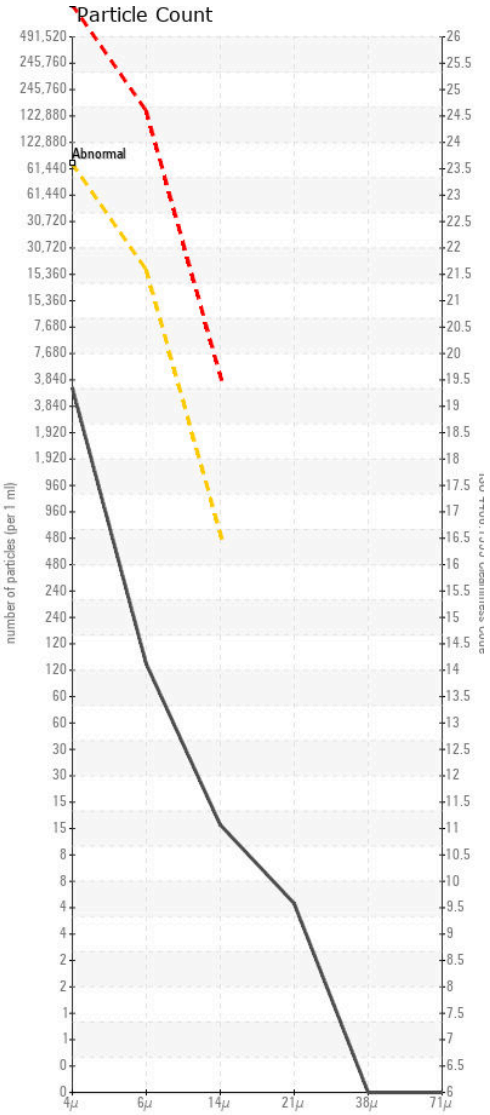
Non-ferrous Metals



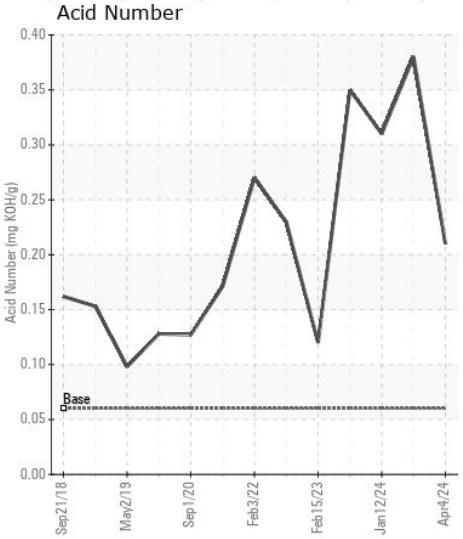
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049676
Lab Number : 06145256
Unique Number : 10970064
Test Package : CONST (Additional Tests: PQ)

Received : 10 Apr 2024
Tested : 16 Apr 2024
Diagnosed : 16 Apr 2024 - Jonathan Hester

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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