CONST

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
Store 5 - Cross Lanes
Machine Id
JOHN DEERE 250G 1FF250GXPNF611983
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (63 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. The oil change at the time of sampling has been noted. Please note that this is a corrected copy for data entry updates.

WEAR

All component wear rates are normal.

CONTAMINATION

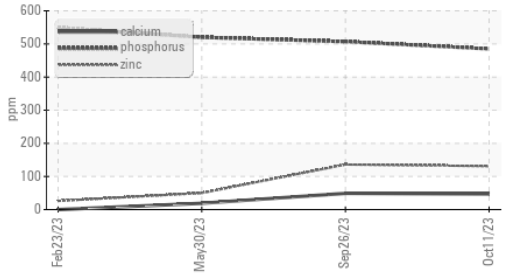
The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

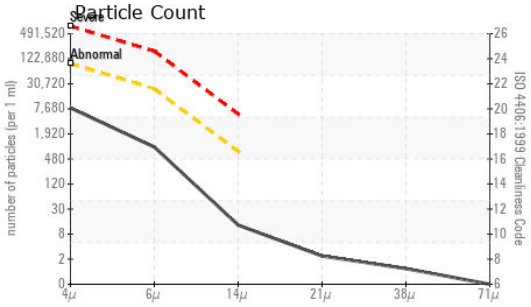
The AN level is acceptable for this fluid. The carboxylate level of this fluid is acceptable.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0043089	LEC0043243	LEC0041862
Sample Date		Client Info		11 Oct 2023	26 Sep 2023	30 May 2023
Machine Age	hrs	Client Info		1007	930	474
Oil Age	hrs	Client Info		1007	930	474
Filter Age	hrs	Client Info		77	930	474
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
PQ		ASTM D8184	>50	14	12	12
Iron	ppm	ASTM D5185m	>32	2	2	2
Chromium	ppm	ASTM D5185m	>9	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	<1	0
Lead	ppm	ASTM D5185m	>28	0	<1	<1
Copper	ppm	ASTM D5185m	>50	7	7	4
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	▲ LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>11	13	▲ 14	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	7043	6353	543
Particles >6µm		ASTM D7647	>20000	815	1681	115
Particles >14µm		ASTM D7647	>640	11	56	10
Particles >21µm		ASTM D7647	>160	2	12	2
Particles >38µm		ASTM D7647	>40	1	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/17/11	20/18/13	16/14/10
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
Sodium	ppm	ASTM D5185m	>21	1	1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		1	1	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		6	<1	4
Calcium	ppm	ASTM D5185m		47	49	19
Phosphorus	ppm	ASTM D5185m	827	485	507	520
Zinc	ppm	ASTM D5185m	0	▲ 131	▲ 136	50
Sulfur	ppm	ASTM D5185m	13	607	651	183
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.25	0.25	0.16
Visc @ 40°C	cSt	ASTM D445	47	45.5	45.5	46.7

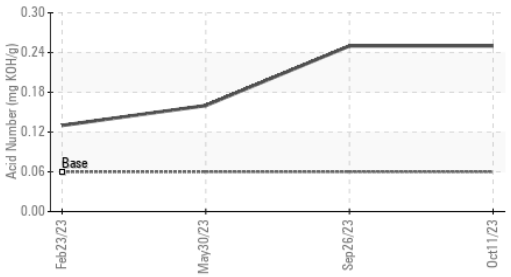
Additives



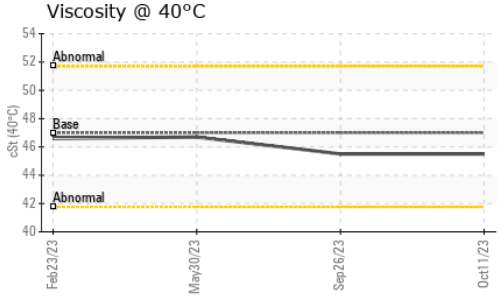
Particle Count



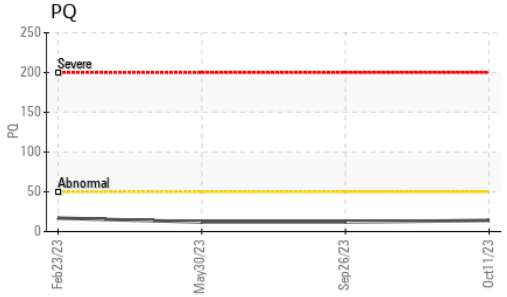
Acid Number



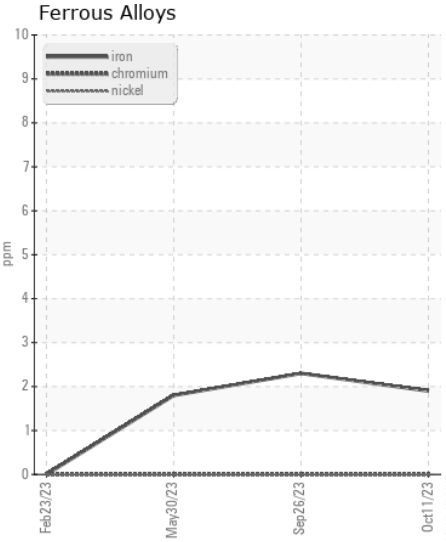
Viscosity @ 40°C



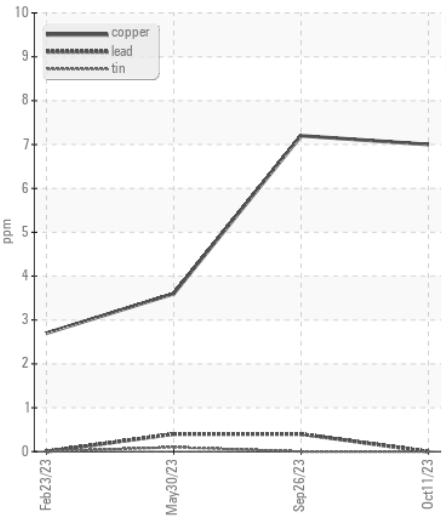
PQ



Ferrous Alloys



Non-ferrous Metals



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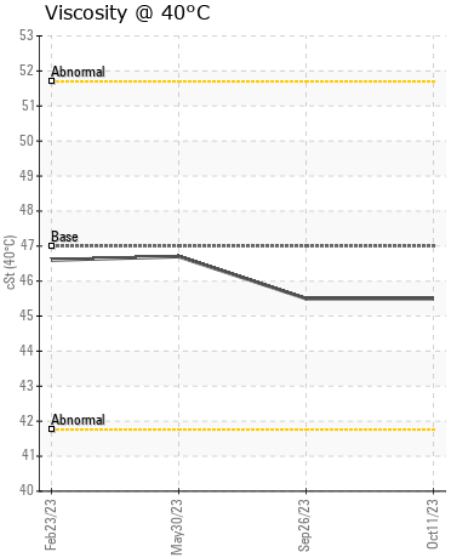
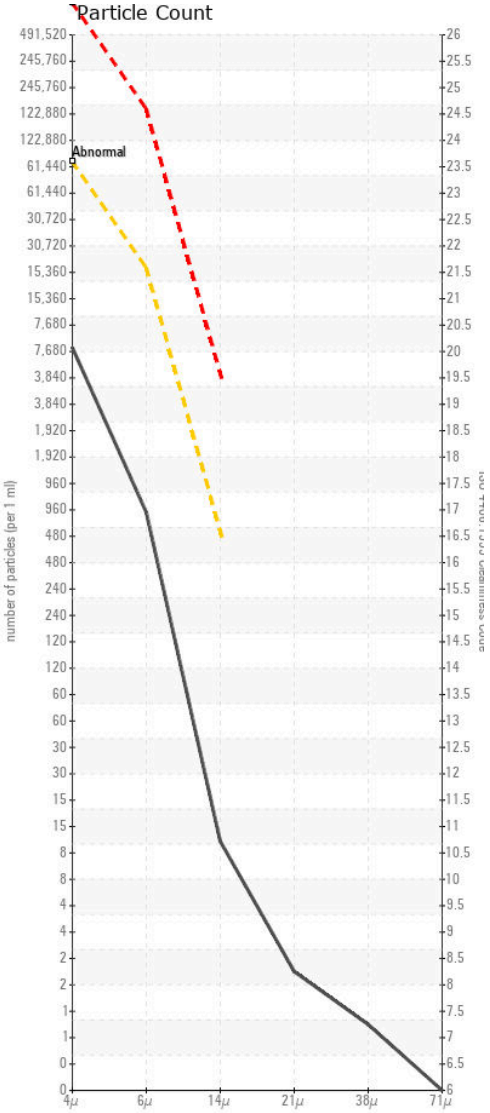
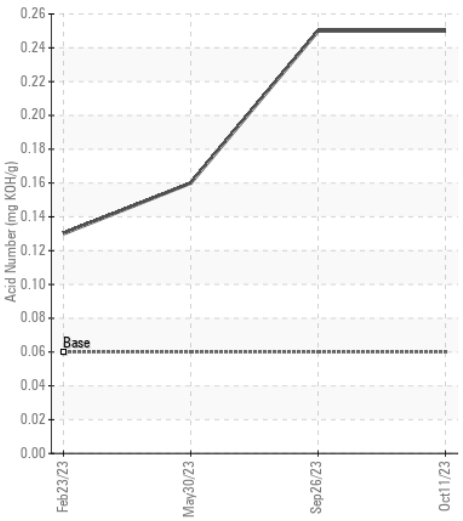


Particle Count



Acid Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: LEC0043089	**Recieved**	: 13 Oct 2023
Lab Number	: 05978203	**Diagnosed**	: 08 Jan 2024
Unique Number	: 10695498	**Diagnostician**	: Doug Bogart
Test Package	: CONST (Additional Tests: PQ)		

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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