CONST

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 2 - Beaver [RO#148195]
Machine Id
JOHN DEERE 310G T0310GX949926
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The chromium level is abnormal. All other component wear rates are normal.

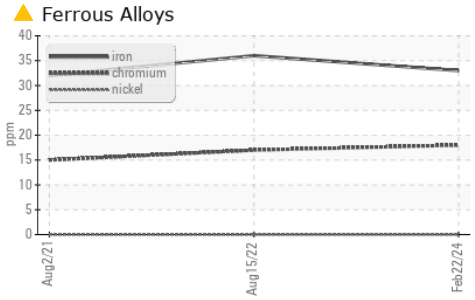
CONTAMINATION

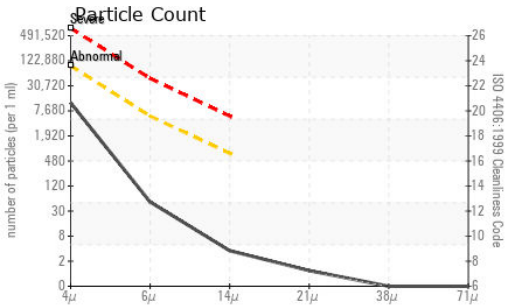
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

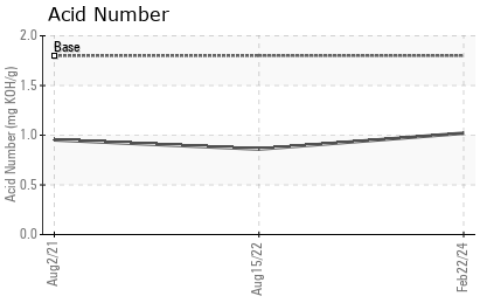
FLUID CONDITION

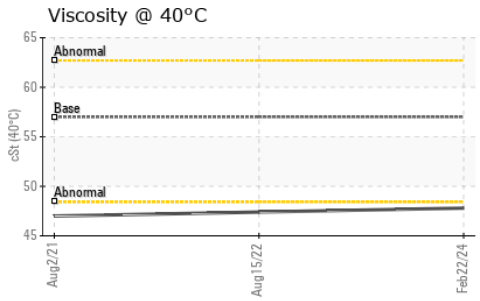
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

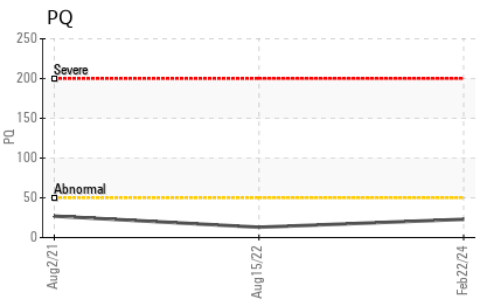
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048461	LEC0032512	LEC0022536
Sample Date		Client Info		22 Feb 2024	15 Aug 2022	02 Aug 2021
Machine Age	hrs	Client Info		2869	2614	2371
Oil Age	hrs	Client Info		2869	2614	2371
Filter Age	hrs	Client Info		255	243	600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>50	23	13	27
Iron	ppm	ASTM D5185m	>71	33	36	32
Chromium	ppm	ASTM D5185m	>11	▲ 18	▲ 17	▲ 15
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>11	4	6	4
Lead	ppm	ASTM D5185m	>13	<1	1	<1
Copper	ppm	ASTM D5185m	>21	18	21	21
Tin	ppm	ASTM D5185m	>5	0	<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	>24	16	16	16
Potassium	ppm	ASTM D5185m	>20	3	<1	3
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	10460	8546	5372
Particles >6µm		ASTM D7647	>5000	44	901	151
Particles >14µm		ASTM D7647	>640	3	75	11
Particles >21µm		ASTM D7647	>160	1	12	3
Particles >38µm		ASTM D7647	>40	0	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	21/13/9	20/17/13	20/14/11
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	4	2	4
Boron	ppm	ASTM D5185m	6	37	65	63
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	6	10	11
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	88	89	83
Calcium	ppm	ASTM D5185m	3570	2242	2118	2124
Phosphorus	ppm	ASTM D5185m	1290	741	691	687
Zinc	ppm	ASTM D5185m	1640	908	871	828
Sulfur	ppm	ASTM D5185m		2700	2627	2258
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.02	0.86	0.953
Visc @ 40°C	cSt	ASTM D445	57.0	47.8	47.4	47.0

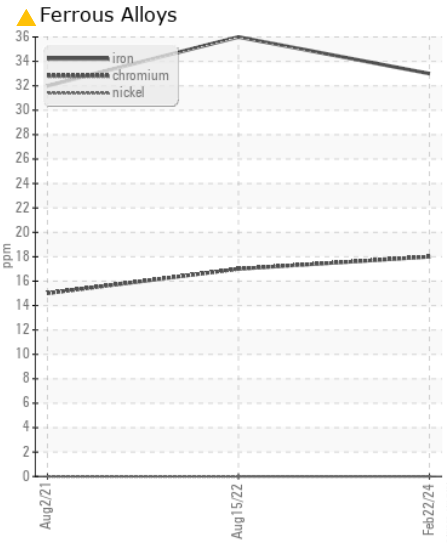


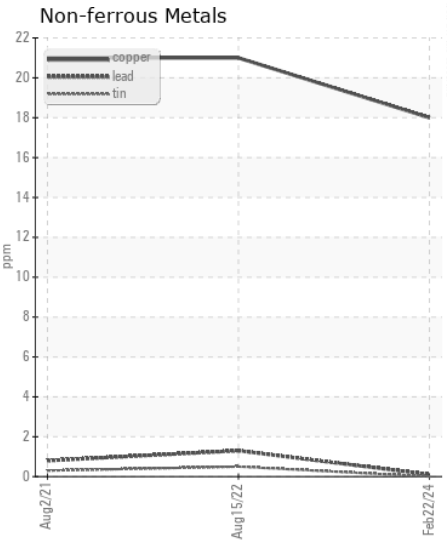


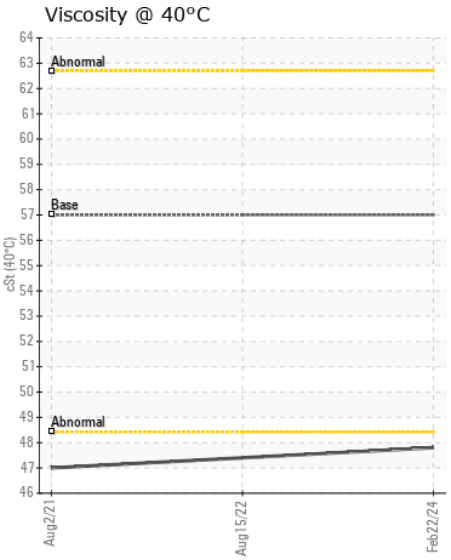


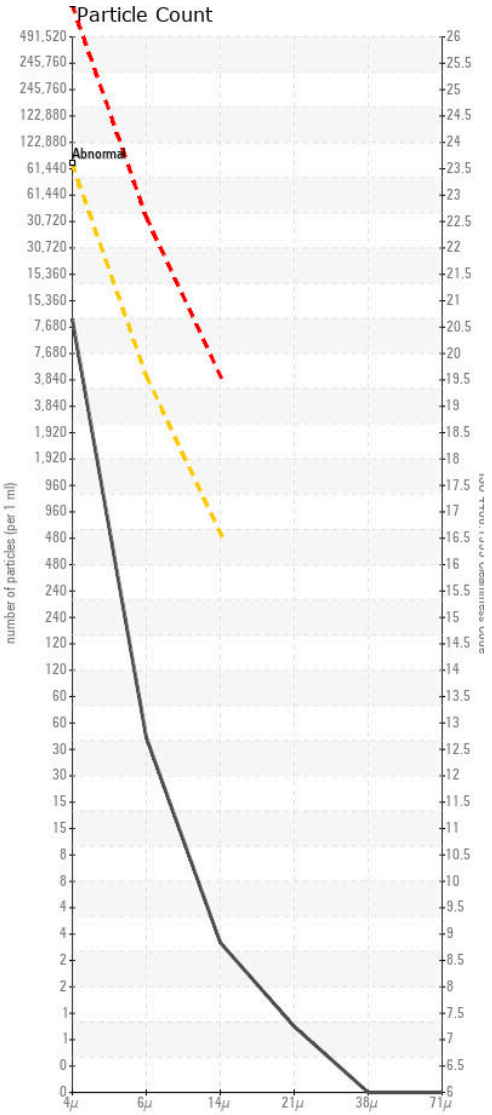


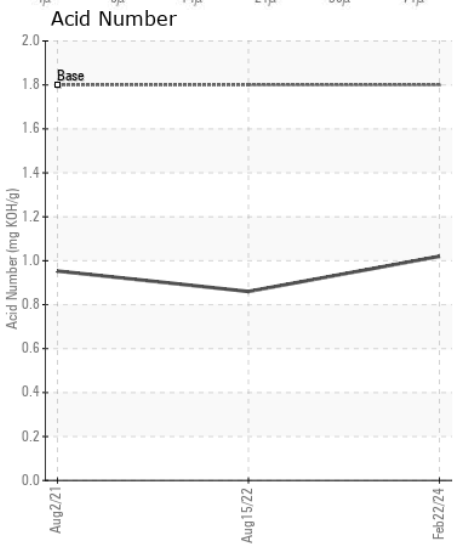












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048461
Lab Number : 06102857
Unique Number : 10901087
Test Package : CONST (Additional Tests: PQ)

Received : 28 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Don Baldridge

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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