CONST

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta [135211]
Machine Id
JOHN DEERE 304L 1LU304LXLZB048374
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (24 GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry update for no oil change.

WEAR

All component wear rates are normal.

CONTAMINATION

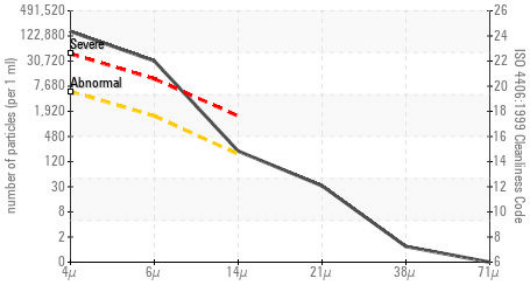
There is a high amount of particulates present in the oil.

FLUID CONDITION

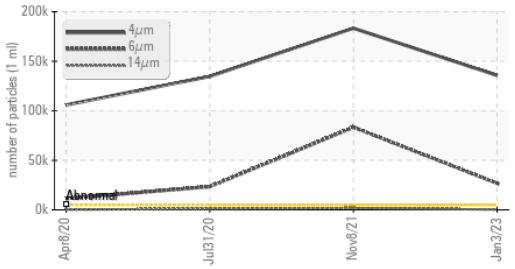
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0037273	LEC0023546	LEC0013799
Sample Date		Client Info		03 Jan 2023	08 Nov 2021	31 Jul 2020
Machine Age	hrs	Client Info		5040	4184	2453
Oil Age	hrs	Client Info		5040	4184	2453
Filter Age	hrs	Client Info		5040	0	2453
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		17	22	20
Iron	ppm	ASTM D5185m	>20	12	9	4
Chromium	ppm	ASTM D5185m	>10	1	1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	6	3	1
Lead	ppm	ASTM D5185m	>10	2	0	<1
Copper	ppm	ASTM D5185m	>75	4	2	3
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	3	4	3
Potassium	ppm	ASTM D5185m	>20	0	4	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 135615	▲ 183376	▲ 134707
Particles >6µm		ASTM D7647	>1300	▲ 26726	▲ 83390	▲ 23377
Particles >14µm		ASTM D7647	>160	▲ 189	▲ 1810	▲ 1112
Particles >21µm		ASTM D7647	>40	28	▲ 53	▲ 153
Particles >38µm		ASTM D7647	>10	1	2	4
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/22/15	▲ 25/24/18	▲ 24/22/17
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	2	2
Boron	ppm	ASTM D5185m		0	17	7
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		6	11	11
Calcium	ppm	ASTM D5185m	87	1234	2039	1078
Phosphorus	ppm	ASTM D5185m	727	335	628	201
Zinc	ppm	ASTM D5185m	900	412	704	290
Sulfur	ppm	ASTM D5185m	1500	4722	5258	3060
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.61	0.935	0.553
Visc @ 40°C	cSt	ASTM D445	65	65.3	57.9	60.2

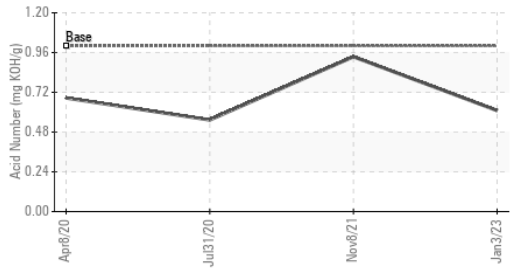
Particle Count



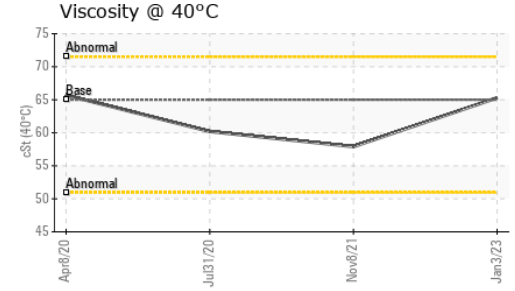
Particle Trend



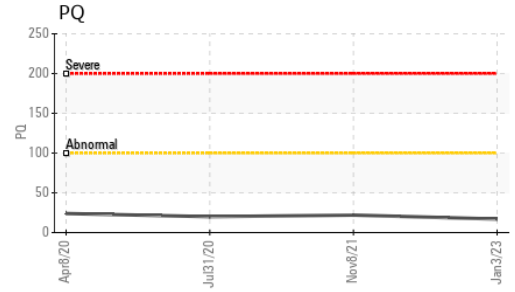
Acid Number



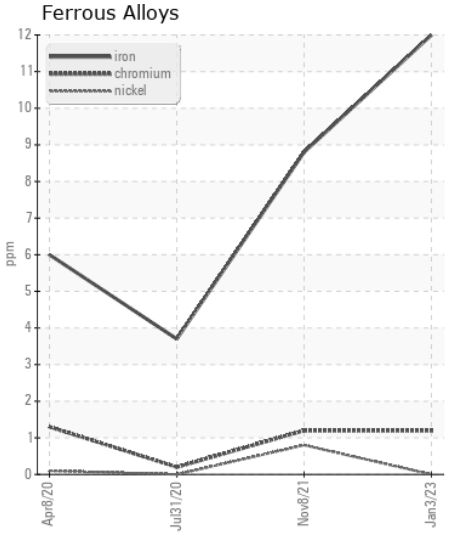
Viscosity @ 40°C



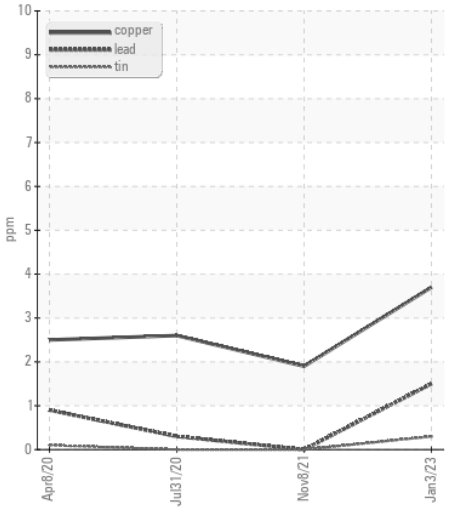
PQ



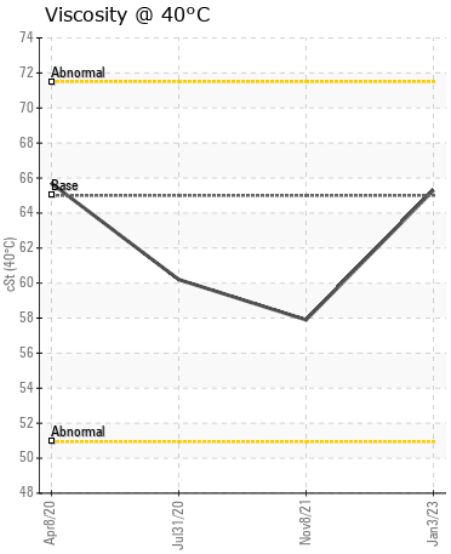
Ferrous Alloys



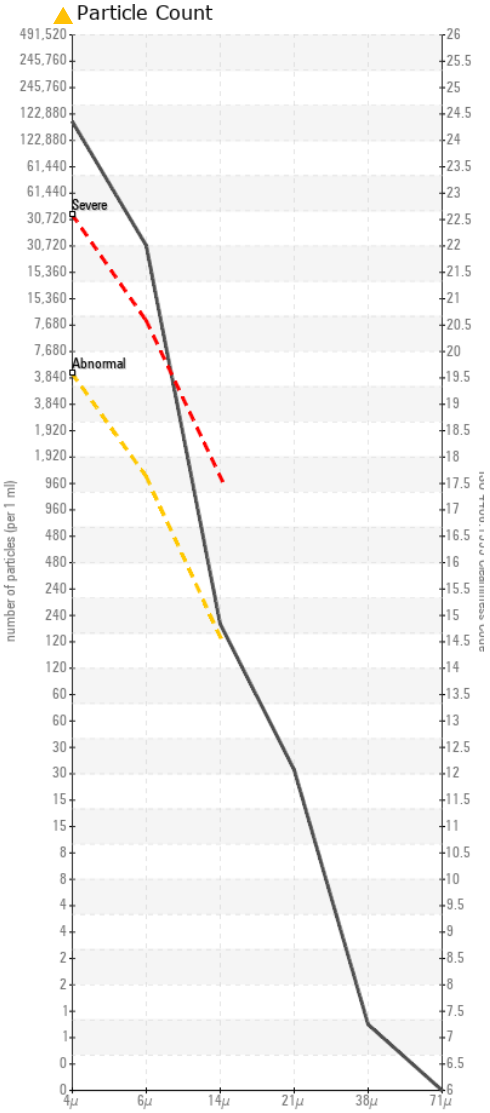
Non-ferrous Metals



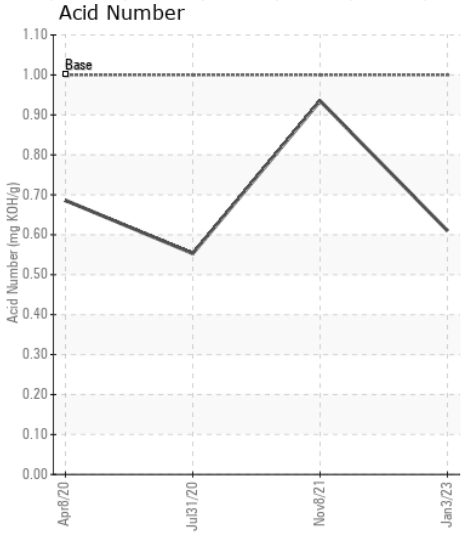
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0037273 **Recieved** : 05 Jan 2023
Lab Number : 05730956 **Diagnosed** : 12 Jan 2023
Unique Number : 10280554 **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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