



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver [101868]
Machine Id
JOHN DEERE 130GL 1FF130GXKEE040620
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (32 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0010807	LECP190711	LECP174290
Sample Date		Client Info		02 Apr 2020	18 Jan 2019	03 Feb 2017
Machine Age	hrs	Client Info		2804	2195	1492
Oil Age	hrs	Client Info		2804	2195	1492
Filter Age	hrs	Client Info		609	1136	433
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	17	15	19
Iron	ppm	ASTM D5185m	>32	8	10	6
Chromium	ppm	ASTM D5185m	>9	2	2	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	1	1
Lead	ppm	ASTM D5185m	>28	<1	0	0
Copper	ppm	ASTM D5185m	>50	2	4	1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

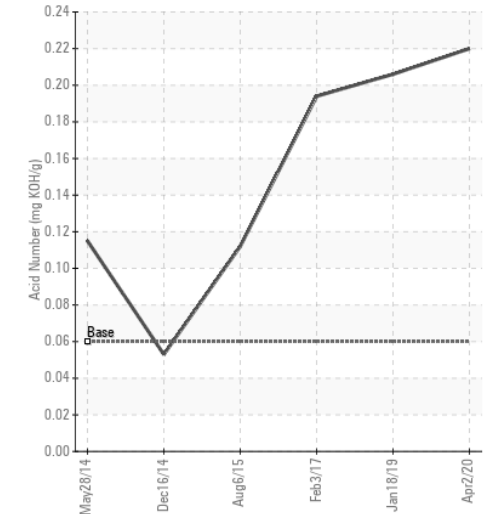
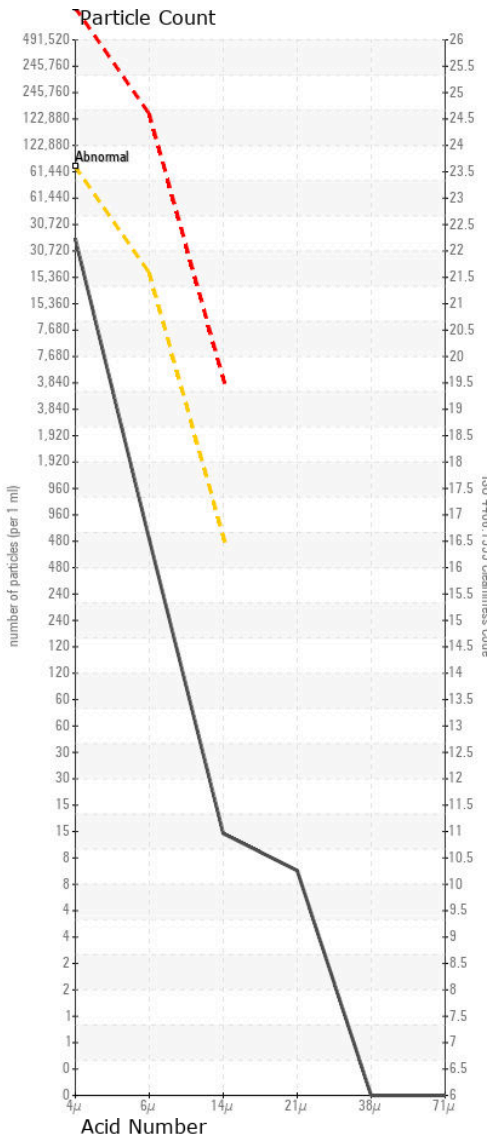
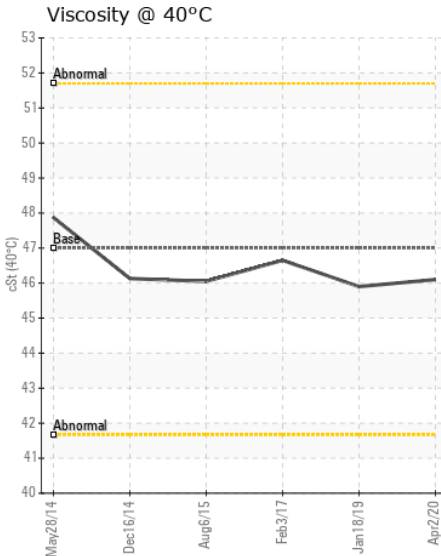
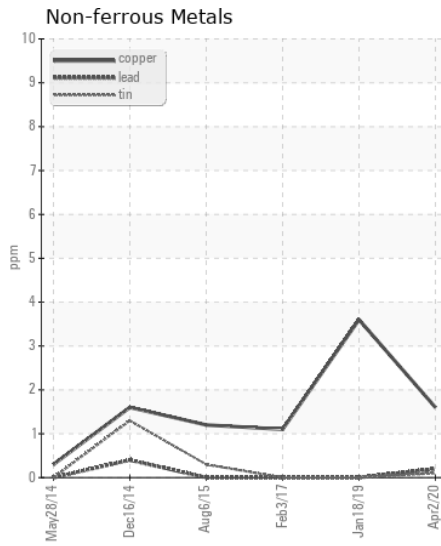
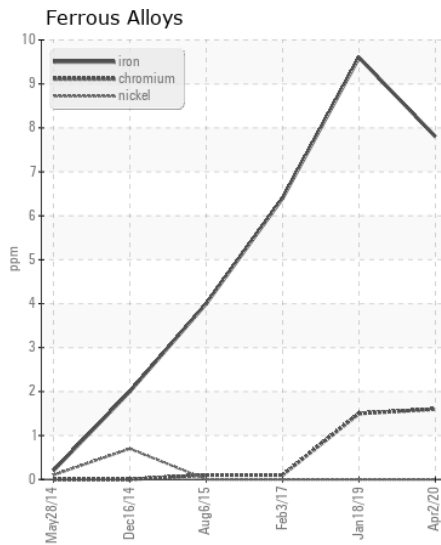
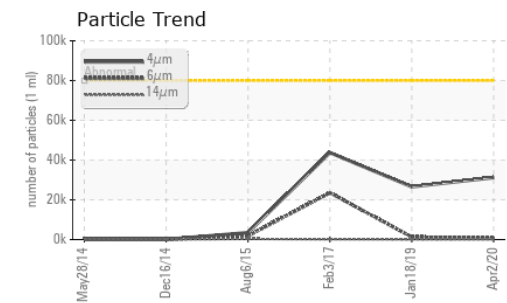
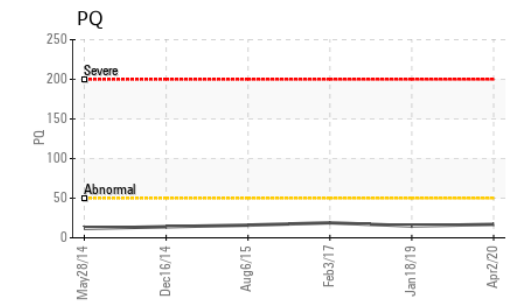
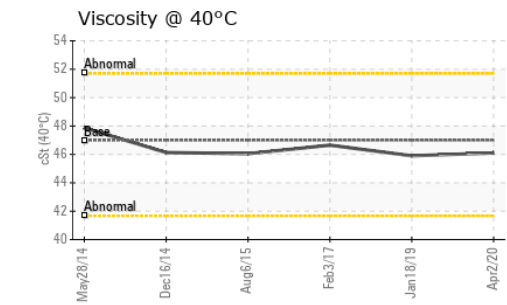
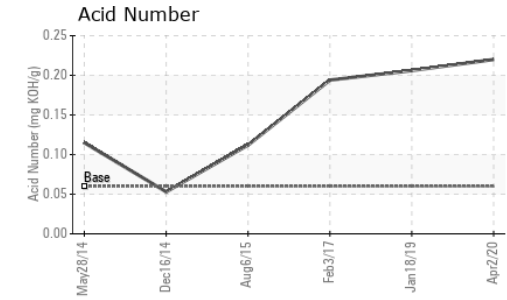
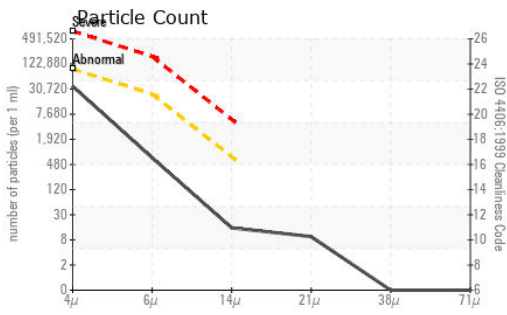
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Silicon	ppm	ASTM D5185m	>11	2	2	2
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	31198	26550	43733
Particles >6µm		ASTM D7647	>20000	612	1299	23558
Particles >14µm		ASTM D7647	>640	13	47	143
Particles >21µm		ASTM D7647	>160	8	10	10
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/16/11	22/17/13	23/22/14
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

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	0	<1	<1
Boron	ppm	ASTM D5185m		4	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		8	<1	0
Calcium	ppm	ASTM D5185m		86	101	192
Phosphorus	ppm	ASTM D5185m	827	390	408	463
Zinc	ppm	ASTM D5185m	0	74	76	90
Sulfur	ppm	ASTM D5185m	13	294	446	221
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.220	0.206	0.194
Visc @ 40°C	cSt	ASTM D445	47	46.1	45.9	46.65



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0010807 **Received** : 06 Apr 2020
Lab Number : 04948843 **Tested** : 07 Apr 2020
Unique Number : 8983949 **Diagnosed** : 07 Apr 2020 - Jonathan Hester
Test Package : MOBCE (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com

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)

T:
 F: (740)373-5570