LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 1 - Cowen [146992]
Machine Id
JOHN DEERE 544K 1DW544KZCDE654148
Component
Hydraulic System
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (39 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

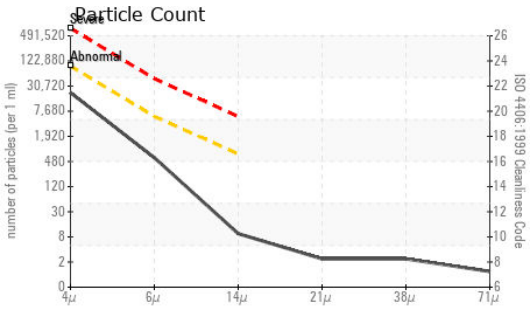
CONTAMINATION

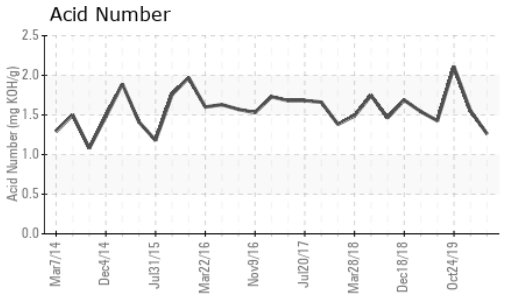
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

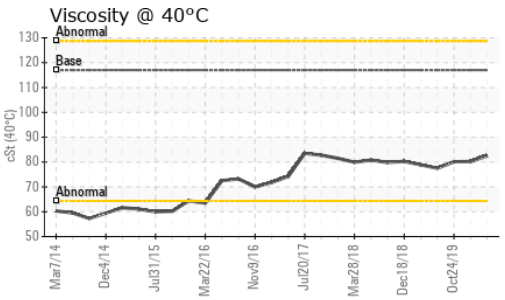
FLUID CONDITION

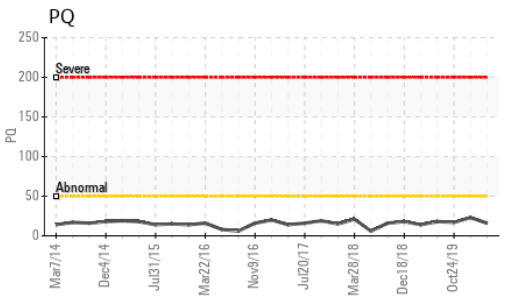
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

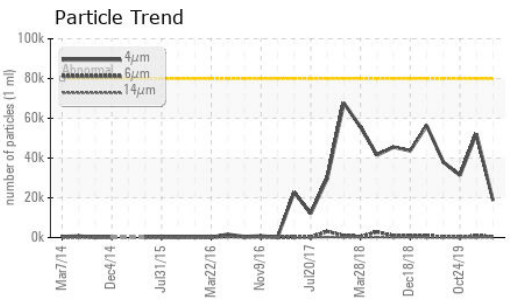
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0045888	LEC0009565	LEC0005304
Sample Date		Client Info		12 Jan 2024	24 Jan 2020	24 Oct 2019
Machine Age	hrs	Client Info		23079	14647	14069
Oil Age	hrs	Client Info		0	14647	14069
Filter Age	hrs	Client Info		0	14647	14069
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184	>50	16	23	17
Iron	ppm	ASTM D5185m	>71	2	6	7
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>11	2	3	4
Lead	ppm	ASTM D5185m	>13	<1	<1	0
Copper	ppm	ASTM D5185m	>21	<1	3	4
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>24	4	7	9
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	18602	52154	31356
Particles >6µm		ASTM D7647	>5000	520	734	397
Particles >14µm		ASTM D7647	>640	8	16	9
Particles >21µm		ASTM D7647	>160	2	9	3
Particles >38µm		ASTM D7647	>40	2	7	2
Particles >71µm		ASTM D7647	>10	1	3	2
Oil Cleanliness		ISO 4406 (c)	>23/19/16	21/16/10	23/17/11	22/16/10
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	3
Boron	ppm	ASTM D5185m		26	10	15
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		59	56	50
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		399	415	428
Calcium	ppm	ASTM D5185m		1605	1652	1561
Phosphorus	ppm	ASTM D5185m		1095	1009	934
Zinc	ppm	ASTM D5185m		1228	1153	1044
Sulfur	ppm	ASTM D5185m		3433	2901	1630
Acid Number (AN)	mg KOH/g	ASTM D8045		1.26	1.552	2.108
Visc @ 40°C	cSt	ASTM D445	117	82.5	80.2	80.1

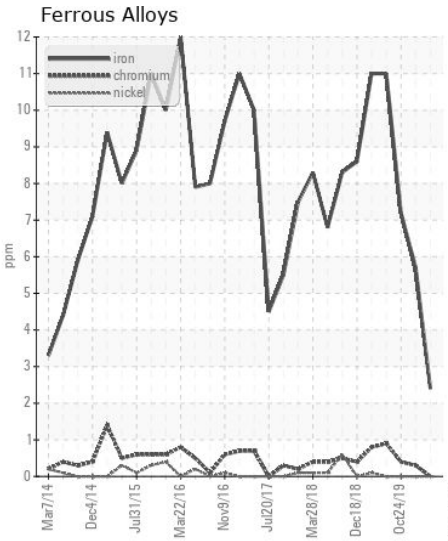


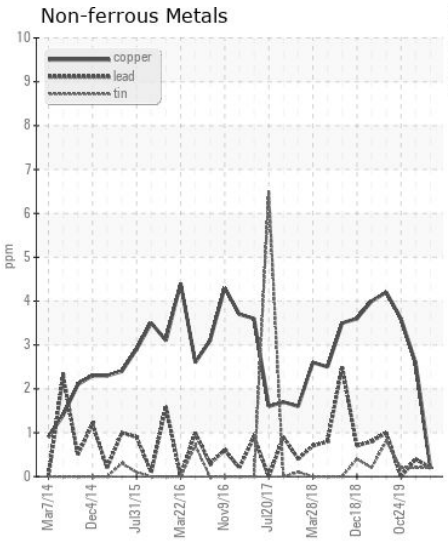


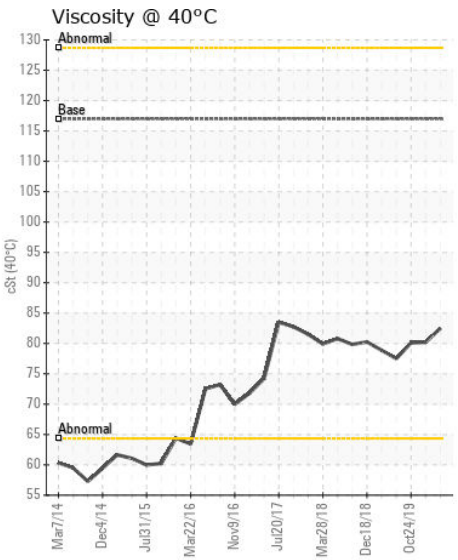


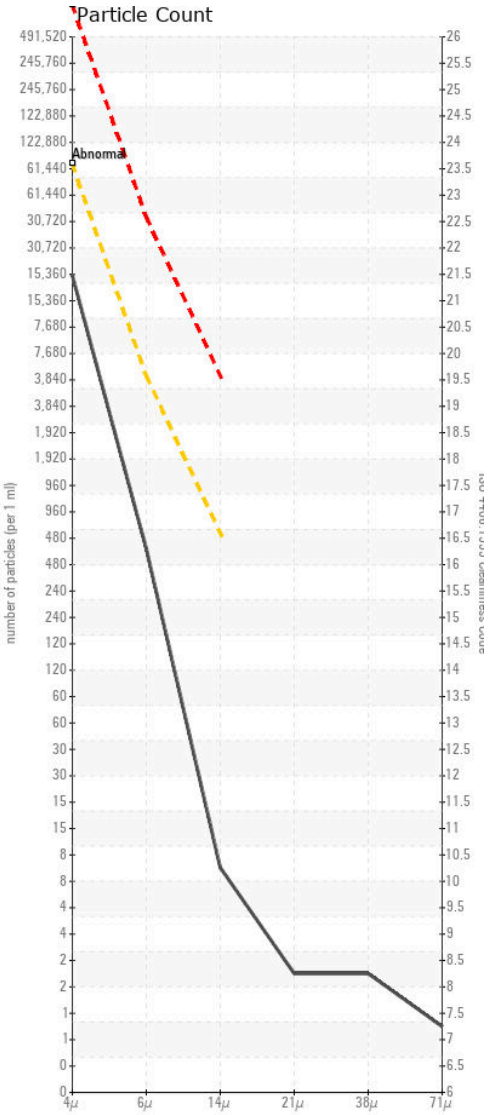


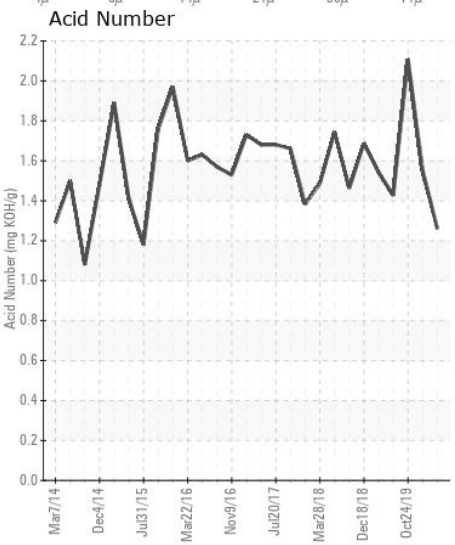












Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: LEC0045888	**Recieved**	: 18 Jan 2024
Lab Number	: 06064224	**Diagnosed**	: 20 Jan 2024
Unique Number	: 10835606	**Diagnostician**	: Don Baldridge
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)

LESLIE EQUIPMENT COMPANY
105 TENNIS CENTER DR.
MARIETTA, OH
US 45750-9765
Contact: LEANNE KENDALL
KendalLeanne@lec1.com
T:
F: (740)373-5570