



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Store 3 - Norton

Machine Id

JOHN DEERE 853M 1T0853MXAKF343716

Component

Hydraulic System

Fluid

JOHN DEERE HYDRAU (40 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0045183	LEC0042713	LEC0038534
Sample Date		Client Info		27 Feb 2024	30 Aug 2023	20 Feb 2023
Machine Age	hrs	Client Info		3050	2577	2083
Oil Age	hrs	Client Info		967	494	2083
Filter Age	hrs	Client Info		2083	494	2083
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	9	9	13
Chromium	ppm	ASTM D5185m	>10	2	<1	2
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>75	2	1	2
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

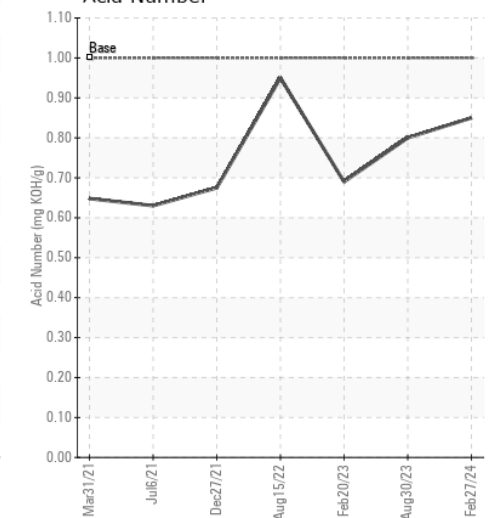
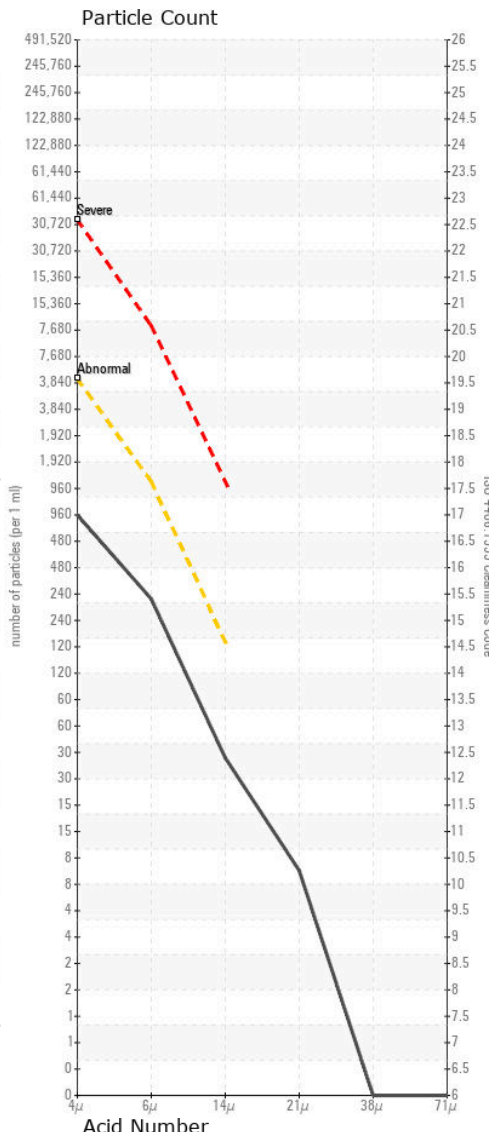
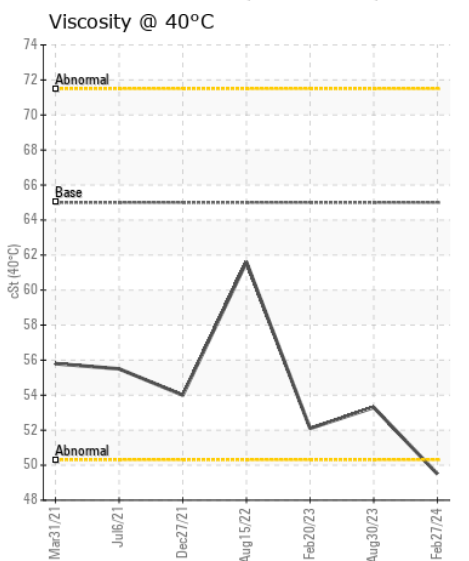
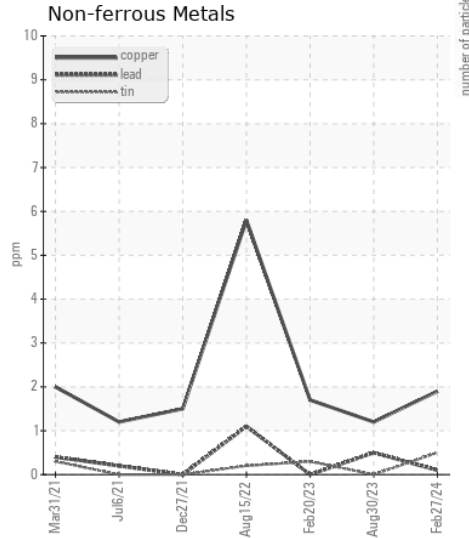
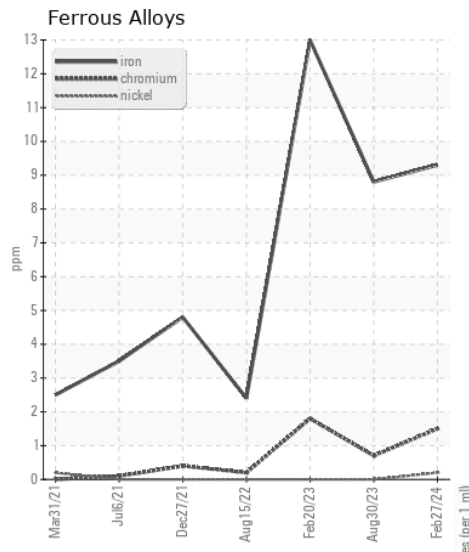
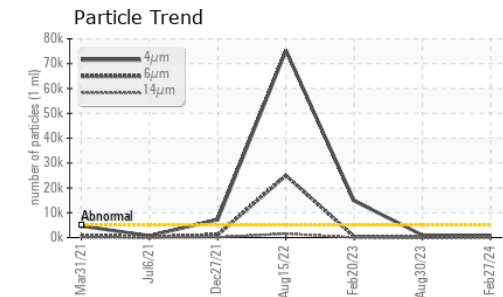
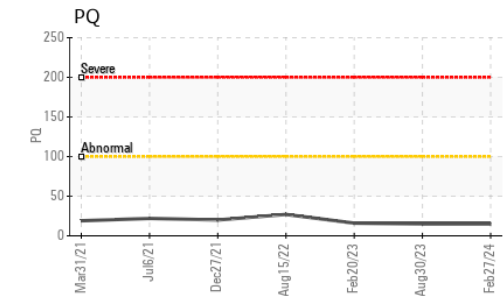
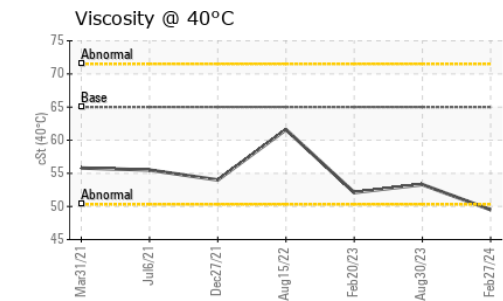
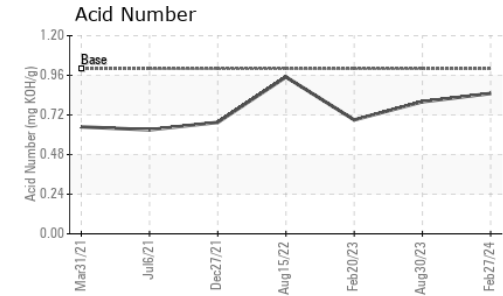
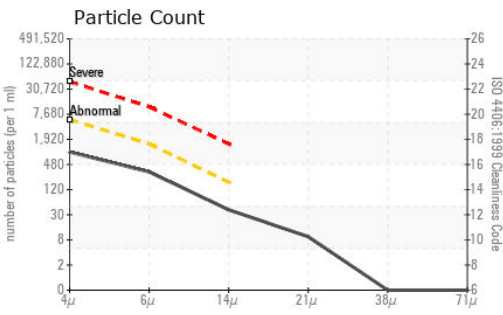
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	4	<1	<1
Potassium	ppm	ASTM D5185m	>20	3	3	4
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	840	969	▲ 14778
Particles >6µm		ASTM D7647	>1300	280	118	364
Particles >14µm		ASTM D7647	>160	35	18	4
Particles >21µm		ASTM D7647	>40	8	6	1
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	17/14/11	▲ 21/16/9
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	>0.1	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		<1	0	2
Boron	ppm	ASTM D5185m		6	0	0
Barium	ppm	ASTM D5185m		0	3	1
Molybdenum	ppm	ASTM D5185m		4	1	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		27	5	4
Calcium	ppm	ASTM D5185m	87	427	108	103
Phosphorus	ppm	ASTM D5185m	727	639	635	592
Zinc	ppm	ASTM D5185m	900	762	769	704
Sulfur	ppm	ASTM D5185m	1500	1844	1728	1670
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.85	0.80	0.69
Visc @ 40°C	cSt	ASTM D445	65	49.5	53.3	52.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0045183 **Received** : 29 Feb 2024
Lab Number : 06104251 **Tested** : 01 Mar 2024
Unique Number : 10902481 **Diagnosed** : 02 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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

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)

F: (740)373-5570