



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
Store 3 - Norton
Machine Id
JOHN DEERE 853M 1T0853MXAKF343716
Component
Swing Drive
Fluid
JOHN DEERE GL-5 80W90 (1 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0045187	LEC0042717	LEC0038538
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		473	494	1088
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		65	39	27
Iron	ppm	ASTM D5185m	>151	99	78	77
Chromium	ppm	ASTM D5185m	>11	<1	1	0
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	>21	<1	4	1
Lead	ppm	ASTM D5185m	>51	<1	<1	0
Copper	ppm	ASTM D5185m	>51	4	2	11
Tin	ppm	ASTM D5185m	>10	0	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

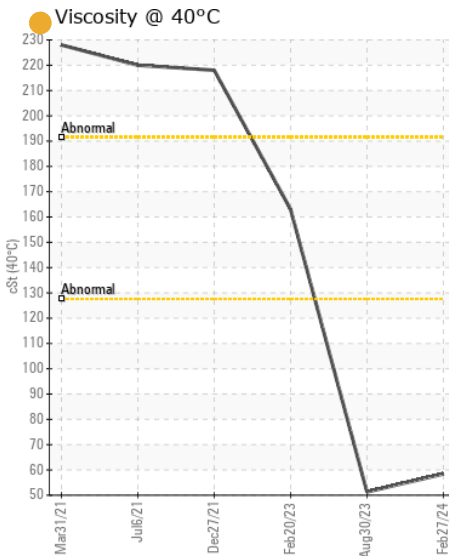
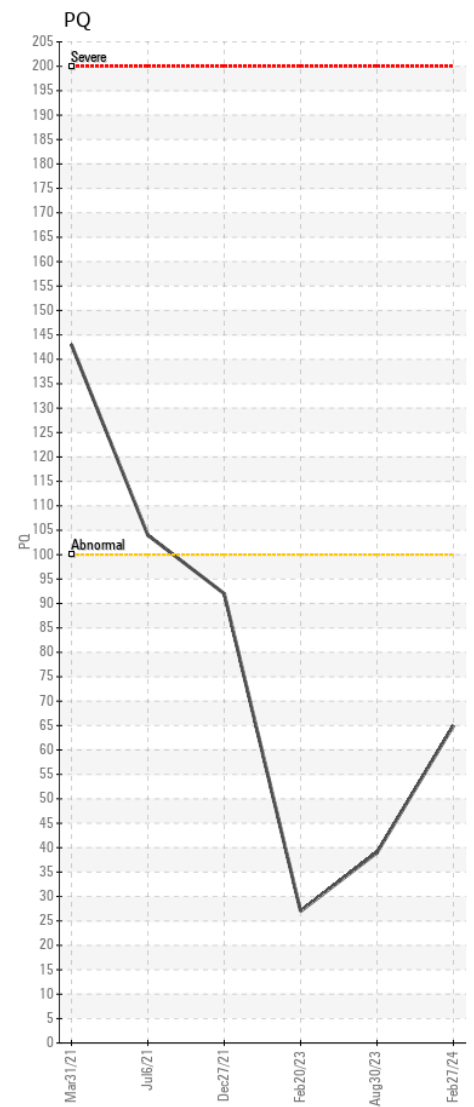
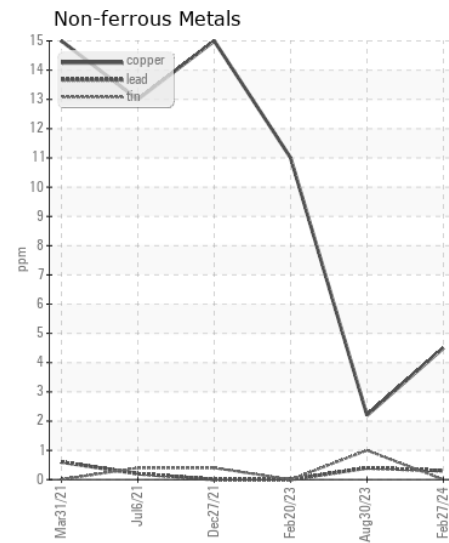
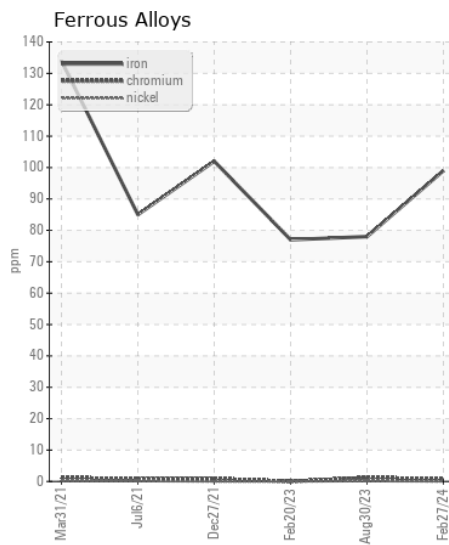
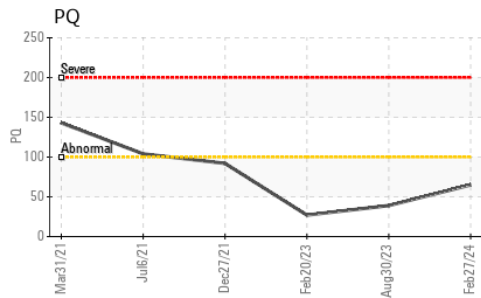
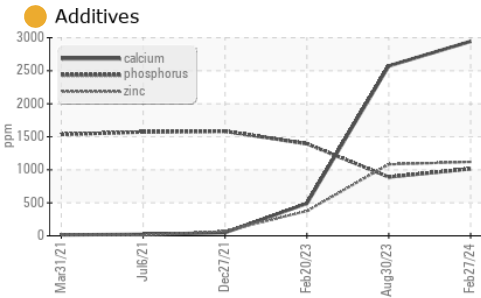
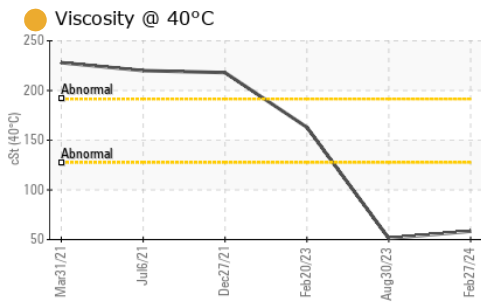
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>31	5	15	6
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	▲ MODER
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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>51	1	<1	2
Boron	ppm	ASTM D5185m		34	6	487
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		6	1	81
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		138	82	904
Calcium	ppm	ASTM D5185m		2944	2572	490
Phosphorus	ppm	ASTM D5185m		1015	890	1394
Zinc	ppm	ASTM D5185m		1119	1081	375
Sulfur	ppm	ASTM D5185m		4036	5309	15801
Visc @ 40°C	cSt	ASTM D445		58.4	51.3	163



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0045187 **Received** : 29 Feb 2024
Lab Number : 06104580 **Tested** : 01 Mar 2024
Unique Number : 10902810 **Diagnosed** : 04 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)