



WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL

NORMAL

NORMAL

Machine Id
JOHN DEERE 844L 1DW844LXANL715466

Component
Rear Differential

Fluid
TDTO FLUID SAE 20 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202728	JR0183379	JR0181358
Sample Date		Client Info		23 Feb 2024	06 Oct 2023	09 Aug 2023
Machine Age	hrs	Client Info		3595	2112	2112
Oil Age	hrs	Client Info		3595	2112	2112
Filter Age	hrs	Client Info		0	2112	0
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The copper level is abnormal. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		62	44	101
Iron	ppm	ASTM D5185m	>500	197	113	189
Chromium	ppm	ASTM D5185m	>10	1	<1	1
Nickel	ppm	ASTM D5185m	>10	1	1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	1
Lead	ppm	ASTM D5185m	>25	19	13	18
Copper	ppm	ASTM D5185m	>100	▲ 353	▲ 223	▲ 315
Tin	ppm	ASTM D5185m	>10	4	3	5
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

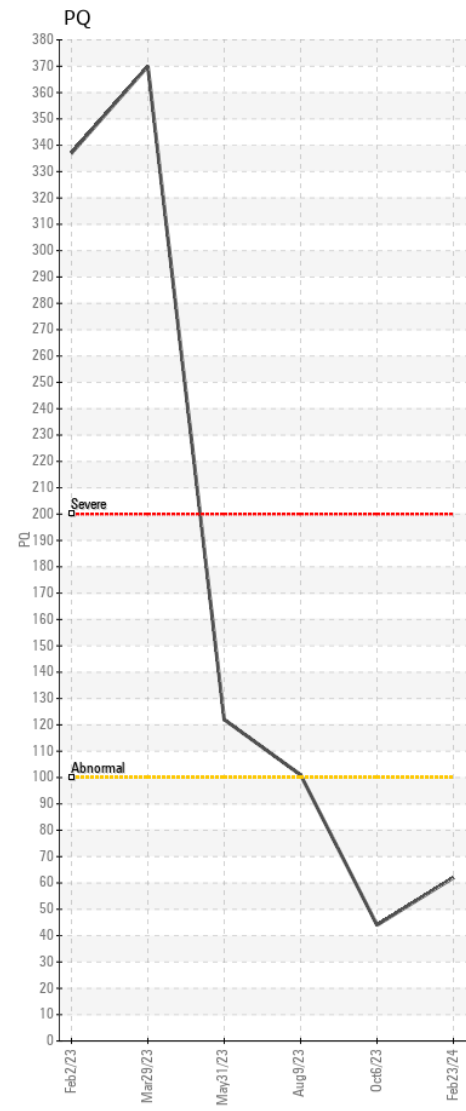
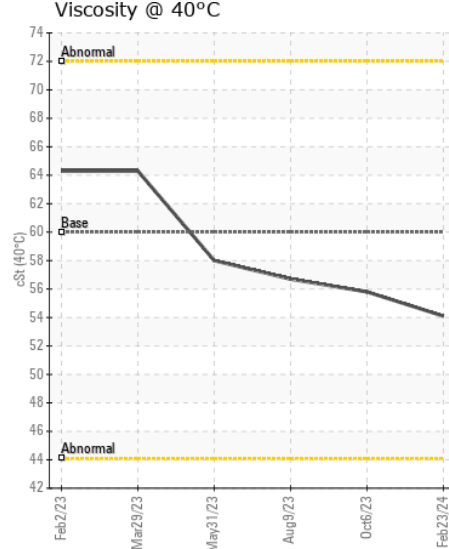
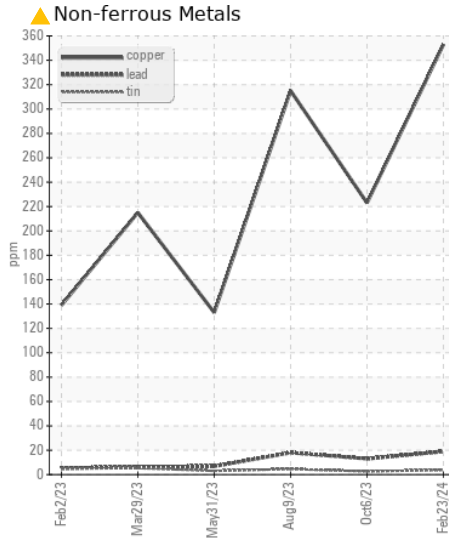
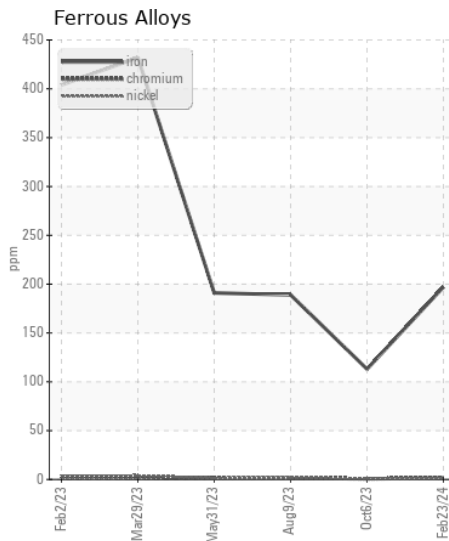
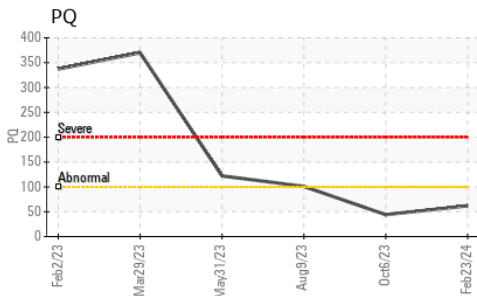
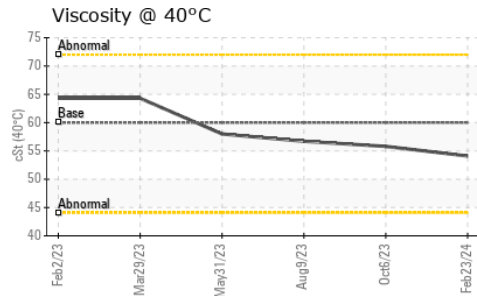
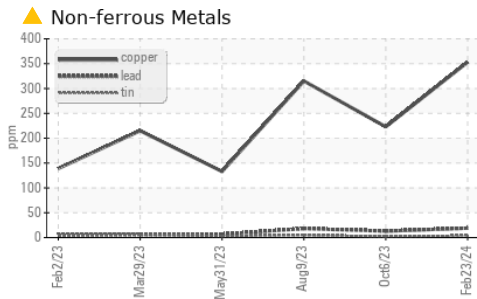
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	35	9	11
Potassium	ppm	ASTM D5185m	>20	2	1	3
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		0	1	12
Boron	ppm	ASTM D5185m	37	14	10	25
Barium	ppm	ASTM D5185m	7	15	2	0
Molybdenum	ppm	ASTM D5185m	5	8	0	2
Manganese	ppm	ASTM D5185m		11	10	20
Magnesium	ppm	ASTM D5185m	40	92	89	63
Calcium	ppm	ASTM D5185m	2650	3093	3280	2912
Phosphorus	ppm	ASTM D5185m	1050	998	1006	923
Zinc	ppm	ASTM D5185m	1075	1124	1213	1108
Sulfur	ppm	ASTM D5185m	5750	3854	3757	3877
Visc @ 40°C	cSt	ASTM D445	60	54.1	55.8	56.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0202728 **Received** : 23 Feb 2024
Lab Number : 06099350 **Tested** : 26 Feb 2024
Unique Number : 10897580 **Diagnosed** : 27 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

FUQUAY - MARTIN MARIETTA
 7400 BUCKHORN DUNCAN RD
 HOLLY SPRINGS, NC
 US 27549
 Contact: DARIN HESS
 darin.hess@martinmarietta.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)