



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[05W45056]
 Machine Id
JOHN DEERE 310 P 1DW310PAJPF06363
 Component
Rear Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (36 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203096	JR0190324	JR0176218
Sample Date		Client Info		27 Feb 2024	05 Oct 2023	19 Jun 2023
Machine Age	hrs	Client Info		1464	942	465
Oil Age	hrs	Client Info		987	477	465
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		119	88	346
Iron	ppm	ASTM D5185m	>500	192	163	183
Chromium	ppm	ASTM D5185m	>10	1	1	2
Nickel	ppm	ASTM D5185m	>10	4	3	5
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	5	2
Lead	ppm	ASTM D5185m	>25	<1	1	0
Copper	ppm	ASTM D5185m	>100	67	48	63
Tin	ppm	ASTM D5185m	>10	4	3	3
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	HEAVY
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

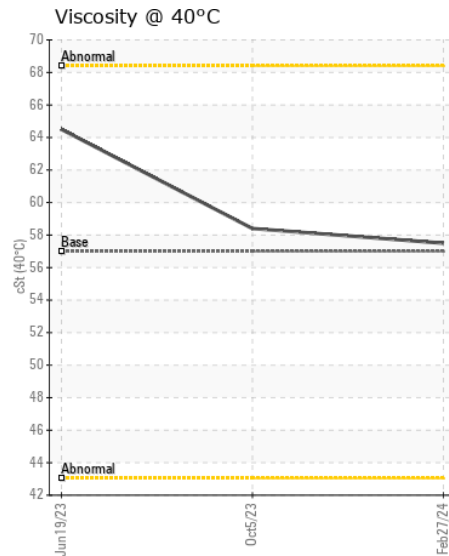
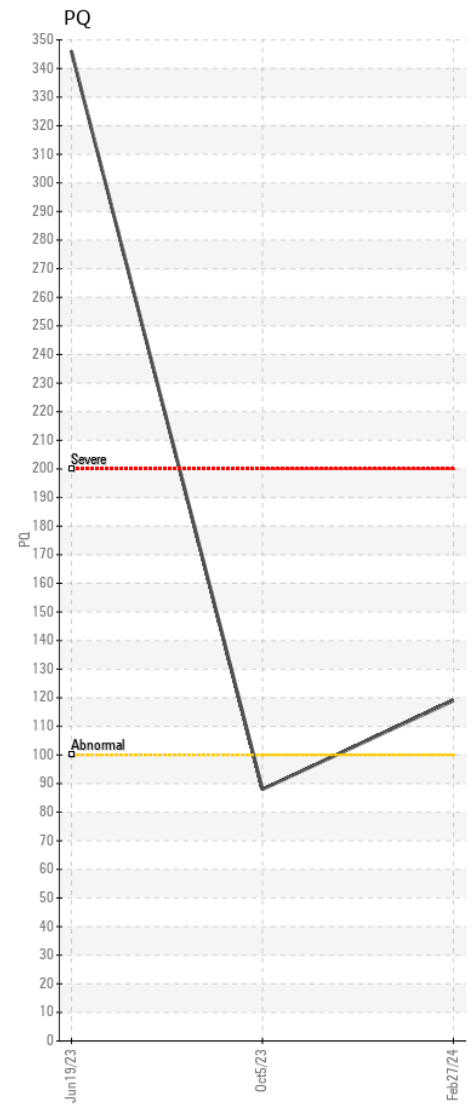
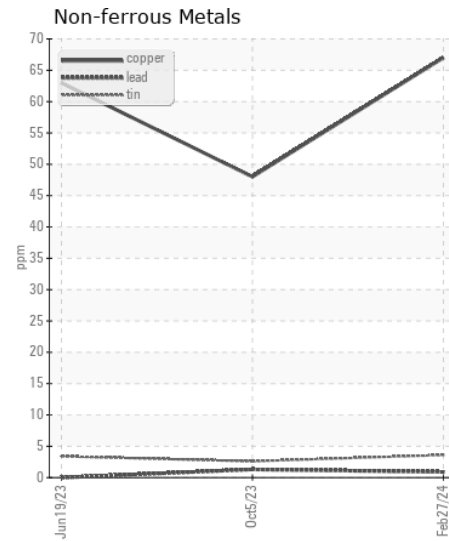
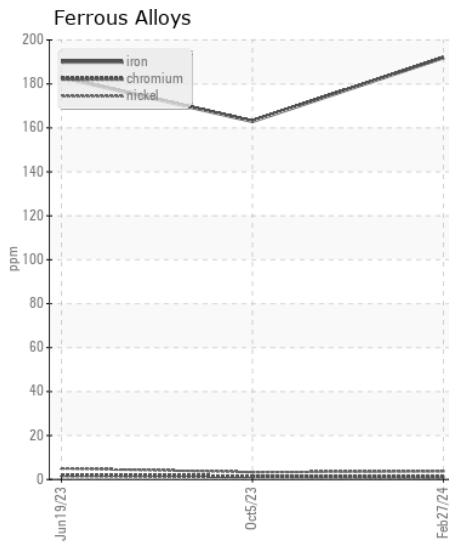
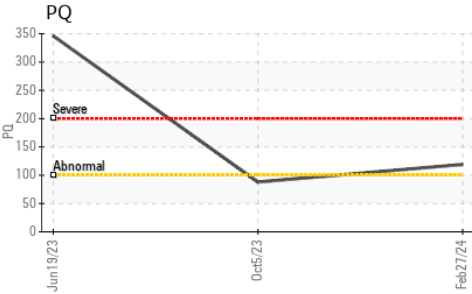
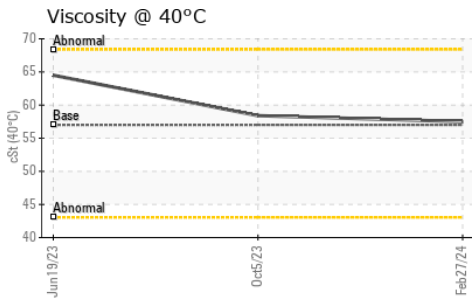
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	12	12	11
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water		WC Method	>.2	NEG	NEG	NEG
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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		7	8	19
Boron	ppm	ASTM D5185m	6	33	40	119
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	6	4	<1
Manganese	ppm	ASTM D5185m		19	18	35
Magnesium	ppm	ASTM D5185m	145	104	100	9
Calcium	ppm	ASTM D5185m	3570	3288	3446	3496
Phosphorus	ppm	ASTM D5185m	1290	1016	1100	1185
Zinc	ppm	ASTM D5185m	1640	1259	1423	1457
Sulfur	ppm	ASTM D5185m		3378	3977	3655
Visc @ 40°C	cSt	ASTM D445	57.0	57.5	58.4	64.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203096 **Received** : 28 Feb 2024
Lab Number : 06103213 **Tested** : 01 Mar 2024
Unique Number : 10901443 **Diagnosed** : 01 Mar 2024 - Wes Davis
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)