



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[44994]

Machine Id

JOHN DEERE 310 P 1DW310PAKPFB06149

Component

Rear Differential

Fluid

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203019	JR0187893	JR0176287
Sample Date		Client Info		20 Feb 2024	04 Oct 2023	20 Jun 2023
Machine Age	hrs	Client Info		1969	1437	949
Oil Age	hrs	Client Info		1969	1437	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		131	86	126
Iron	ppm	ASTM D5185m	>500	251	241	108
Chromium	ppm	ASTM D5185m	>10	3	2	<1
Nickel	ppm	ASTM D5185m	>10	11	11	5
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	<1	0
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	112	90	37
Tin	ppm	ASTM D5185m	>10	6	5	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

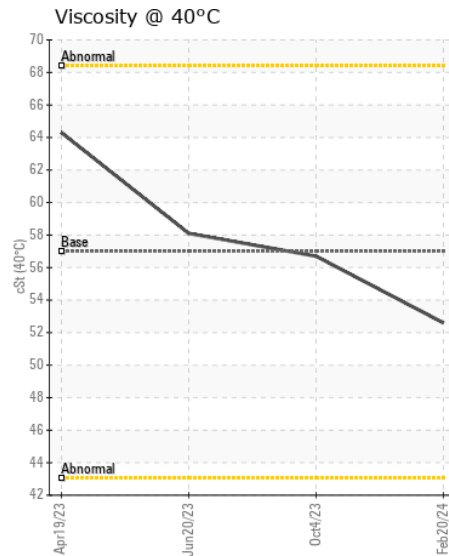
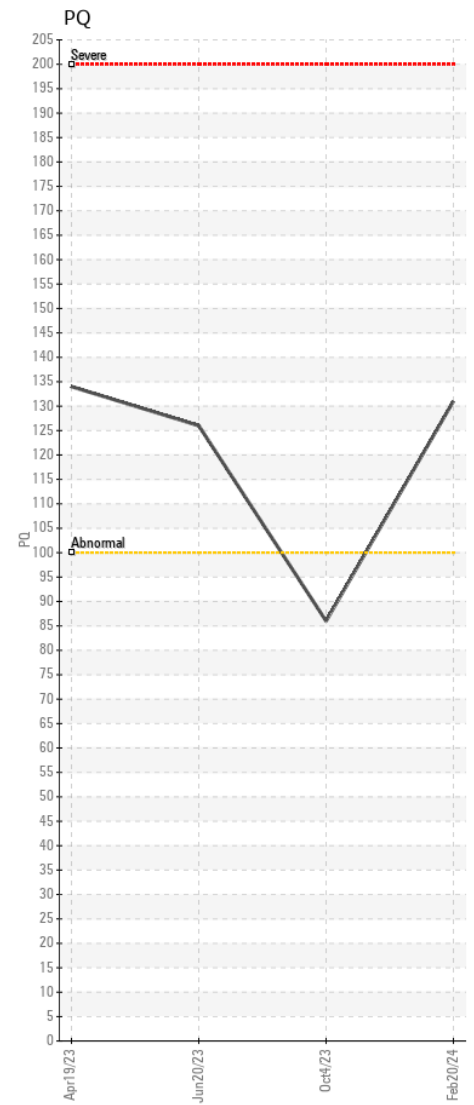
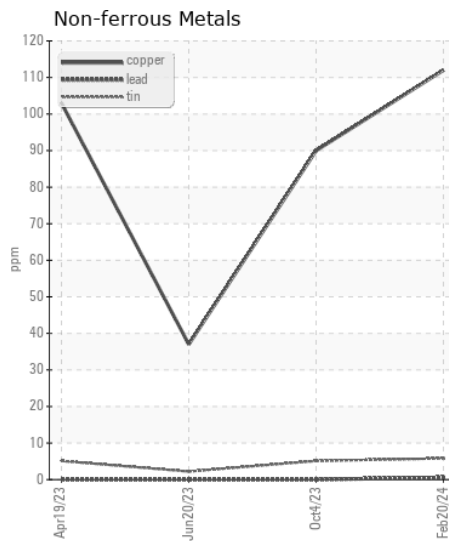
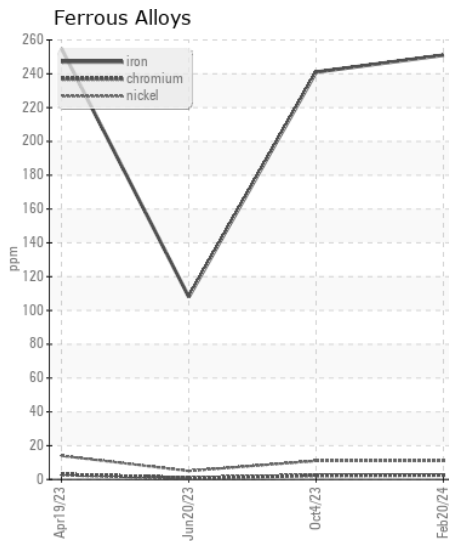
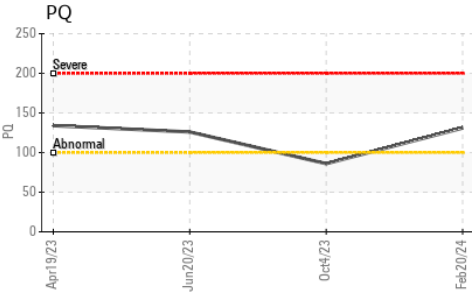
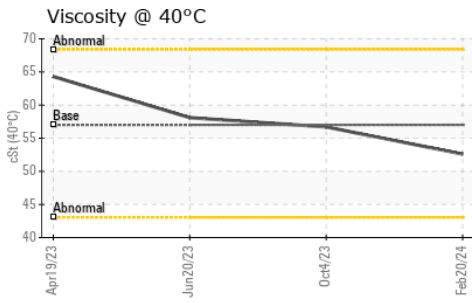
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	16	17	7
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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		5	8	5
Boron	ppm	ASTM D5185m	6	41	46	29
Barium	ppm	ASTM D5185m	0	6	0	0
Molybdenum	ppm	ASTM D5185m	0	7	9	4
Manganese	ppm	ASTM D5185m		30	33	17
Magnesium	ppm	ASTM D5185m	145	92	108	65
Calcium	ppm	ASTM D5185m	3570	3246	3554	2188
Phosphorus	ppm	ASTM D5185m	1290	983	1140	675
Zinc	ppm	ASTM D5185m	1640	1217	1365	822
Sulfur	ppm	ASTM D5185m		3692	3851	2525
Visc @ 40°C	cSt	ASTM D445	57.0	52.6	56.7	58.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203019 **Received** : 22 Feb 2024
Lab Number : 06097944 **Tested** : 23 Feb 2024
Unique Number : 10896174 **Diagnosed** : 25 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

B & S SITE DEVELOPMENT
 7800 PINEY BRANCH LANE
 BRISTOW, VA
 US 20136
 Contact: DANNY HUFF
 dhuff@bandssite.com
 T: (540)270-3203
 F: (703)753-0605

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)