



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[16W16293]

Machine Id

JOHN DEERE 544 P 1DW544PAHNLZ15954

Component

Front Axle

Fluid

JOHN DEERE HY-GARD HYD/TRANS (18 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W16293)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207196	JR0196546	JR0185359
Sample Date		Client Info		22 May 2024	15 Feb 2024	26 Sep 2023
Machine Age	hrs	Client Info		1476	982	472
Oil Age	hrs	Client Info		1004	510	472
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	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		111	113	278
Iron	ppm	ASTM D5185m	>750	164	115	415
Chromium	ppm	ASTM D5185m	>11	2	<1	3
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	>21	1	1	6
Lead	ppm	ASTM D5185m	>49	4	2	11
Copper	ppm	ASTM D5185m	>101	14	7	28
Tin	ppm	ASTM D5185m	>10	2	<1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	MODER	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

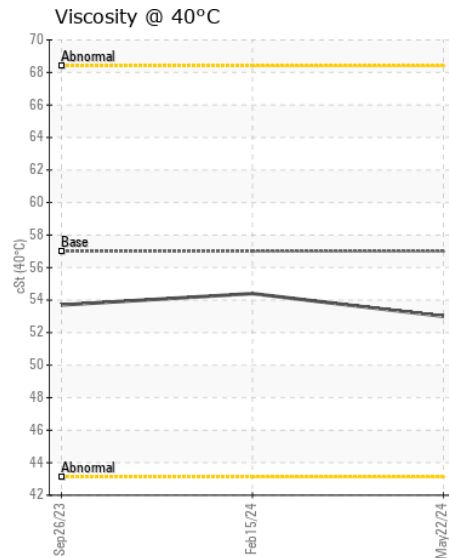
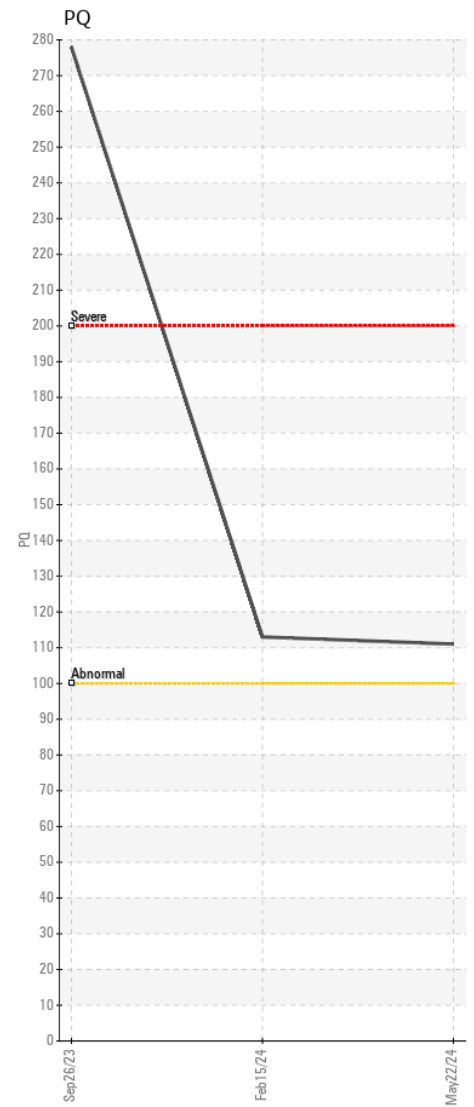
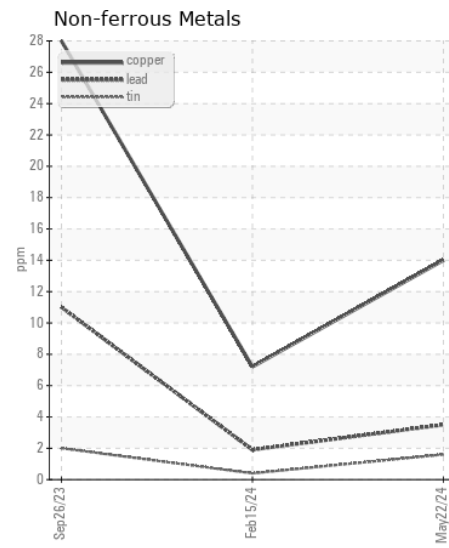
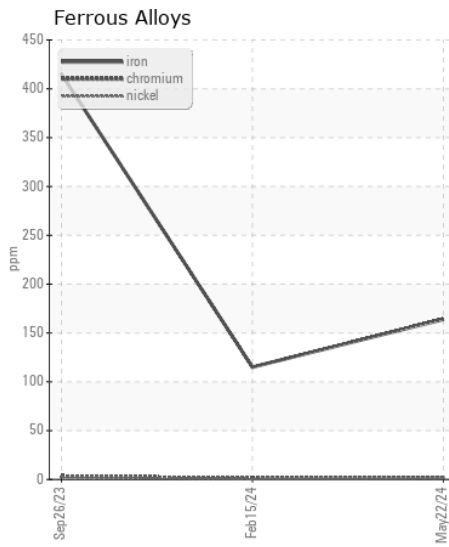
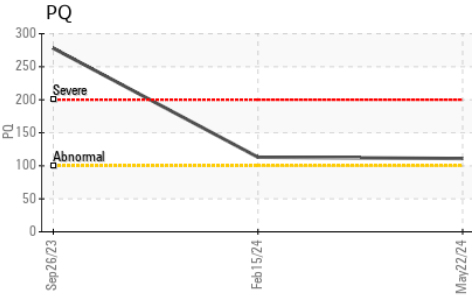
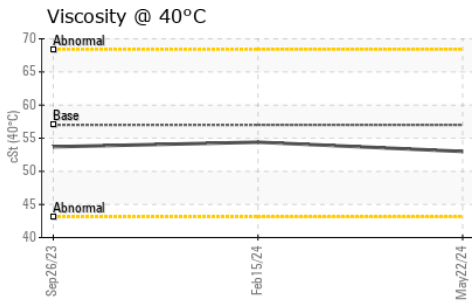
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>31	10	10	25
Potassium	ppm	ASTM D5185m	>20	3	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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 condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m	>51	0	1	6
Boron	ppm	ASTM D5185m	6	1	0	1
Barium	ppm	ASTM D5185m	0	1	0	5
Molybdenum	ppm	ASTM D5185m	0	1	<1	<1
Manganese	ppm	ASTM D5185m		3	2	9
Magnesium	ppm	ASTM D5185m	145	107	97	93
Calcium	ppm	ASTM D5185m	3570	3616	3333	3388
Phosphorus	ppm	ASTM D5185m	1290	1073	1007	999
Zinc	ppm	ASTM D5185m	1640	1318	1189	1216
Sulfur	ppm	ASTM D5185m		4087	3628	3808
Visc @ 40°C	cSt	ASTM D445	57.0	53.0	54.4	53.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207196 **Received** : 24 May 2024
Lab Number : 06190747 **Tested** : 29 May 2024
Unique Number : 11047499 **Diagnosed** : 29 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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)

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