



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[16W15207]
 Machine Id
JOHN DEERE 544 P 1DW544PAJNLZ15235
 Component
Front Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (18 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W15207)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196208	JR0185349	JR0173534
Sample Date		Client Info		22 Dec 2023	28 Sep 2023	20 Jun 2023
Machine Age	hrs	Client Info		2500	2055	1537
Oil Age	hrs	Client Info		445	1545	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		253	93	73
Iron	ppm	ASTM D5185m	>500	78	199	136
Chromium	ppm	ASTM D5185m	>10	<1	2	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	4	2
Lead	ppm	ASTM D5185m	>25	1	8	4
Copper	ppm	ASTM D5185m	>100	3	18	11
Tin	ppm	ASTM D5185m	>10	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

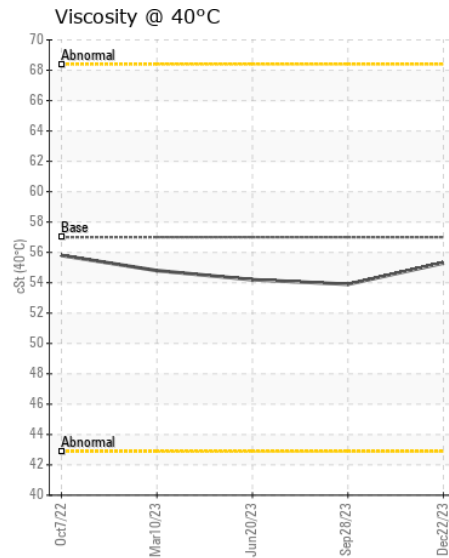
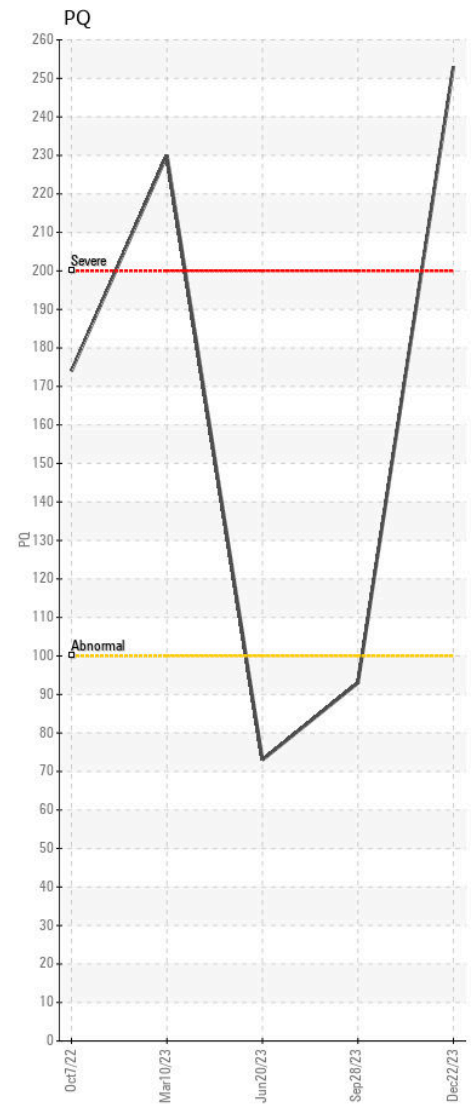
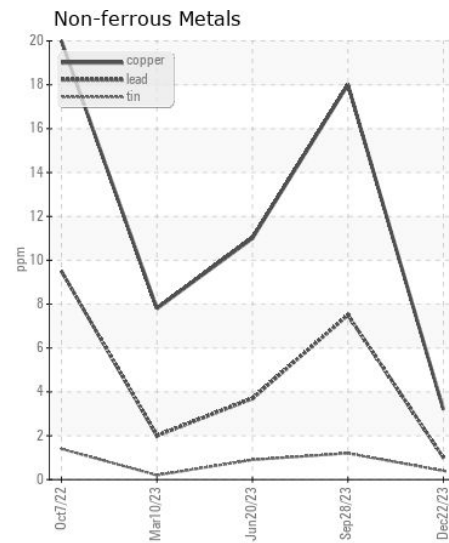
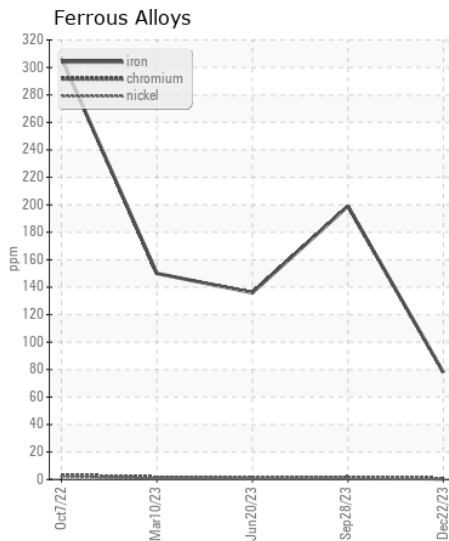
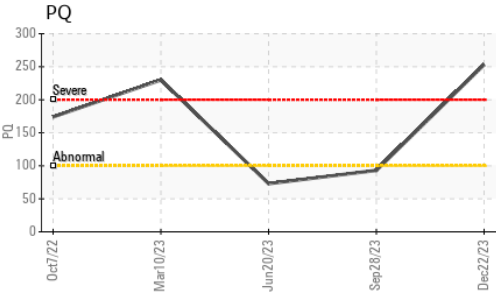
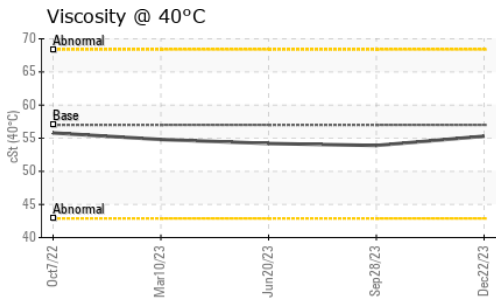
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	7	13	9
Potassium	ppm	ASTM D5185m	>20	0	2	<1
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		1	0	3
Boron	ppm	ASTM D5185m	6	2	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		2	5	4
Magnesium	ppm	ASTM D5185m	145	100	98	97
Calcium	ppm	ASTM D5185m	3570	3415	3624	3376
Phosphorus	ppm	ASTM D5185m	1290	1078	1120	958
Zinc	ppm	ASTM D5185m	1640	1251	1329	1199
Sulfur	ppm	ASTM D5185m		3743	4610	3969
Visc @ 40°C	cSt	ASTM D445	57.0	55.3	53.9	54.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196208 **Received** : 09 Jan 2024
Lab Number : 06056071 **Diagnosed** : 10 Jan 2024
Unique Number : 10822020 **Diagnostician** : Angela Borella
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
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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)

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