



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 544 P 1DW544PALNLZ16164

Component
Rear Axle

Fluid
JOHN DEERE HY-GARD HYD/TRANS (16 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213886	JR0200743	JR0186670
Sample Date		Client Info		08 May 2024	26 Jan 2024	26 Sep 2023
Machine Age	hrs	Client Info		2186	1648	1126
Oil Age	hrs	Client Info		969	953	794
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		88	82	54
Iron	ppm	ASTM D5185m	>750	251	182	149
Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	2	2	3
Lead	ppm	ASTM D5185m	>49	13	11	9
Copper	ppm	ASTM D5185m	>101	12	10	8
Tin	ppm	ASTM D5185m	>10	<1	1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

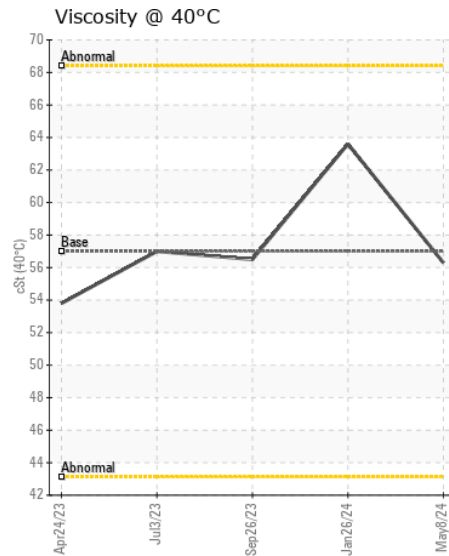
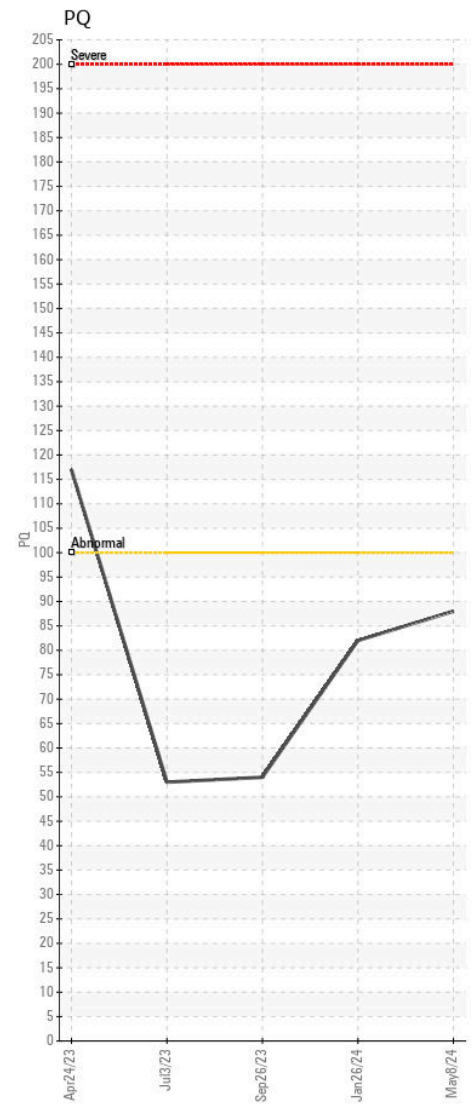
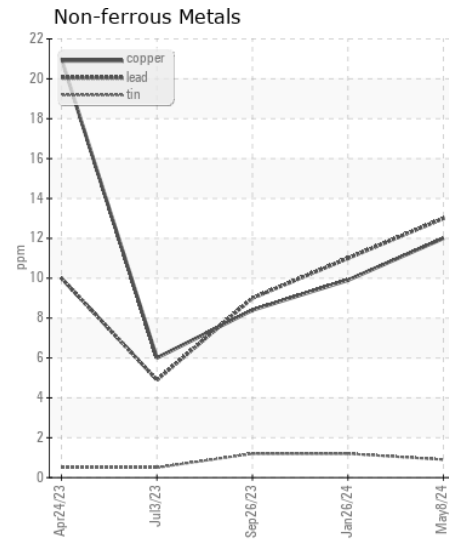
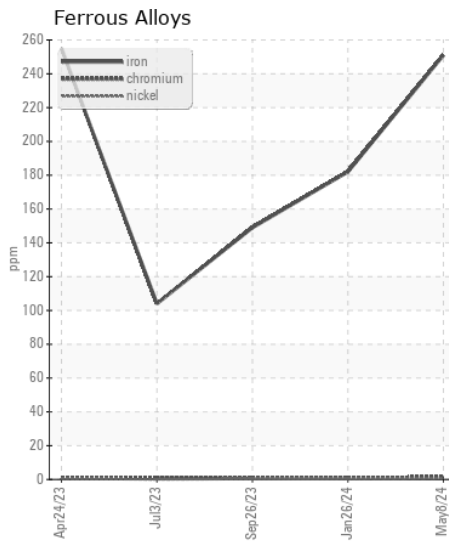
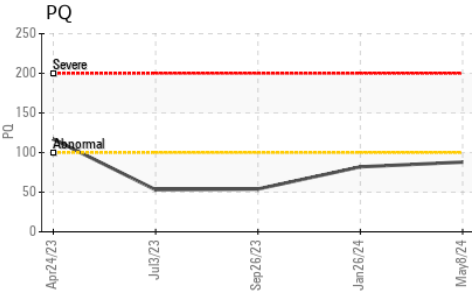
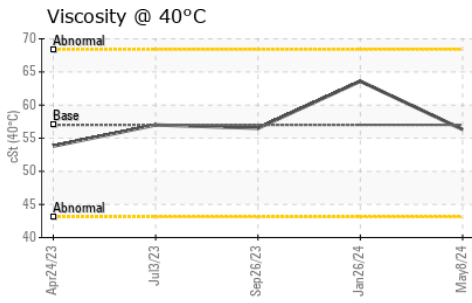
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	24	14	13
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water		WC Method	>0.1	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	>0.1	NEG	0.2%	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	6	4	4
Boron	ppm	ASTM D5185m	6	29	22	18
Barium	ppm	ASTM D5185m	0	1	<1	0
Molybdenum	ppm	ASTM D5185m	0	24	12	13
Manganese	ppm	ASTM D5185m		5	5	4
Magnesium	ppm	ASTM D5185m	145	146	132	135
Calcium	ppm	ASTM D5185m	3570	3382	3157	3212
Phosphorus	ppm	ASTM D5185m	1290	1086	1017	1002
Zinc	ppm	ASTM D5185m	1640	1312	1219	1217
Sulfur	ppm	ASTM D5185m		4314	3363	3782
Visc @ 40°C	cSt	ASTM D445	57.0	56.3	63.6	56.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0213886

Lab Number : 06174196

Unique Number : 11020249

Test Package : CONST (Additional Tests: PQ)

Received : 09 May 2024

Tested : 10 May 2024

Diagnosed : 10 May 2024 - Wes Davis

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)

JRE - GREENVILLE

3604 HIGHWAY 264 E

GREENVILLE, NC

US 27834-5800

Contact: GREENVILLE SHOP

christopher.martin@jamesriverequipment.com

T:

F: