



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644 P 1DW644PATPLX19041
Component
Front Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (27 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0225906	JR0103229	JR0108945
Sample Date		Client Info		14 Jul 2024	17 Mar 2024	16 Feb 2024
Machine Age	hrs	Client Info		1013	441	338
Oil Age	hrs	Client Info		572	441	338
Filter Age	hrs	Client Info		0	0	338
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		20	24	29
Iron	ppm	ASTM D5185m	>750	32	62	51
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	3	2	2
Lead	ppm	ASTM D5185m	>49	40	23	24
Copper	ppm	ASTM D5185m	>101	128	102	48
Tin	ppm	ASTM D5185m	>10	0	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

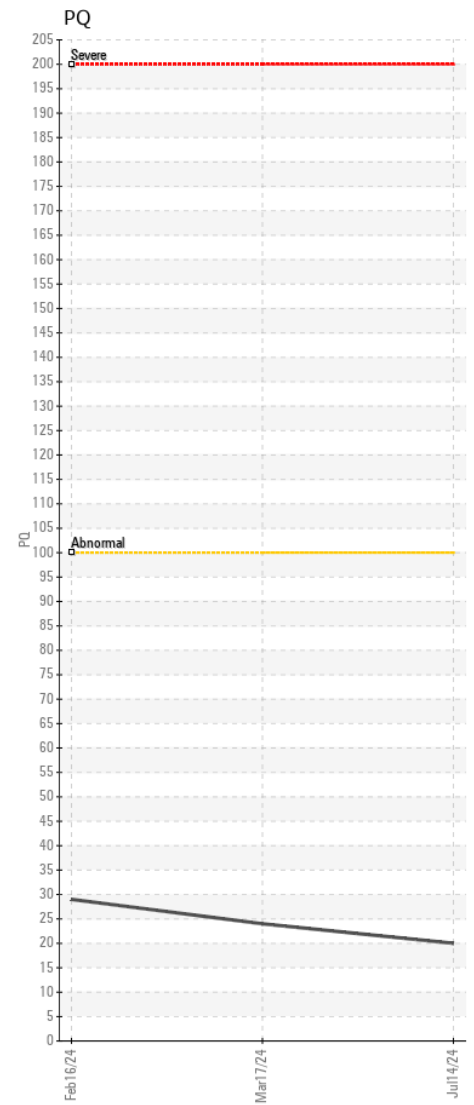
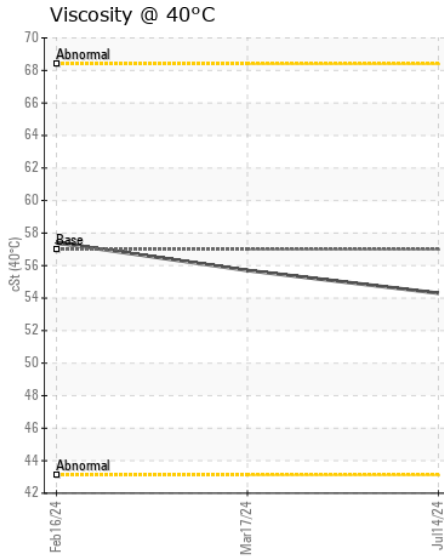
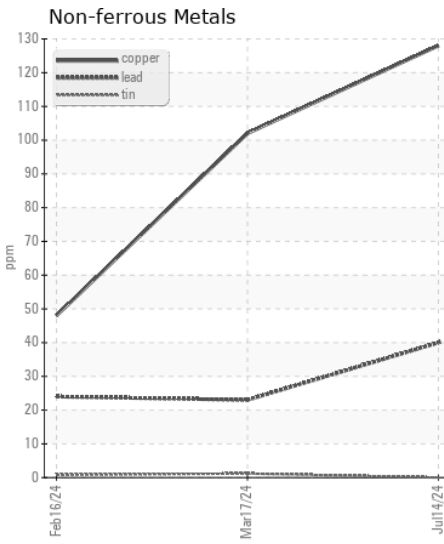
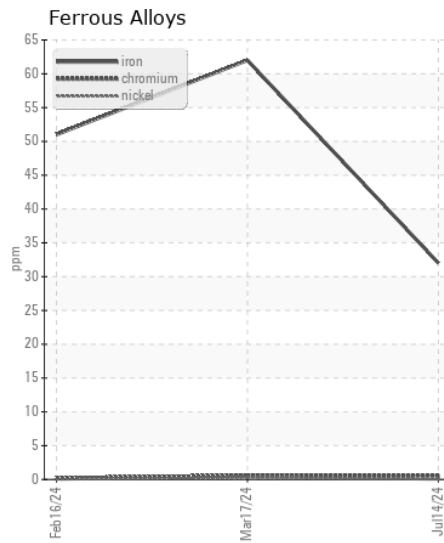
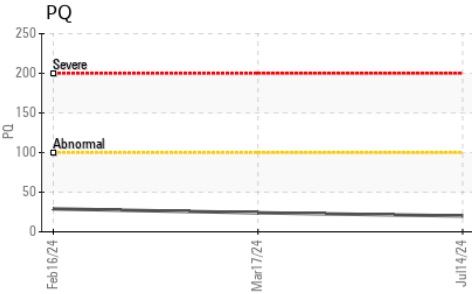
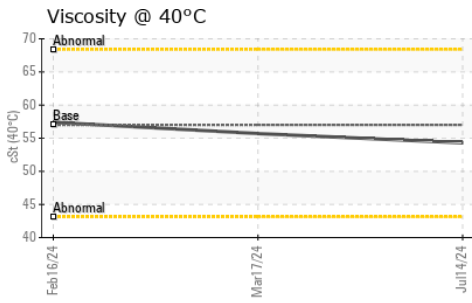
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>31	4	9	4
Potassium	ppm	ASTM D5185m	>20	2	5	4
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	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	<1	7	2
Boron	ppm	ASTM D5185m	6	19	5	3
Barium	ppm	ASTM D5185m	0	0	3	15
Molybdenum	ppm	ASTM D5185m	0	13	<1	<1
Manganese	ppm	ASTM D5185m		<1	4	3
Magnesium	ppm	ASTM D5185m	145	129	97	100
Calcium	ppm	ASTM D5185m	3570	3293	3472	3341
Phosphorus	ppm	ASTM D5185m	1290	853	1028	1040
Zinc	ppm	ASTM D5185m	1640	1207	1224	1205
Sulfur	ppm	ASTM D5185m		3289	4438	4527
Visc @ 40°C	cSt	ASTM D445	57.0	54.3	55.7	57.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0225906 **Received** : 16 Jul 2024
Lab Number : 06238135 **Tested** : 17 Jul 2024
Unique Number : 11126969 **Diagnosed** : 18 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GREENVILLE
 3604 HIGHWAY 264 E
 GREENVILLE, NC
 US 27834-5800

Contact: GREENVILLE SHOP
 christopher.martin@jamesriverequipment.com

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)

T:
F: