



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[05W47509]

Machine Id

JOHN DEERE 648L 1DW648LBCNF715622

Component

Rear Differential

Fluid

JOHN DEERE HY-GARD HYD/TRANS (38 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218219	JR0164842	---
Sample Date		Client Info		18 Jun 2024	11 Mar 2024	---
Machine Age	hrs	Client Info		1022	500	---
Oil Age	hrs	Client Info		1022	500	---
Filter Age	hrs	Client Info		1022	500	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		59	78	---
Iron	ppm	ASTM D5185m	>500	200	164	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	<1	<1	---
Lead	ppm	ASTM D5185m	>25	4	4	---
Copper	ppm	ASTM D5185m	>100	37	32	---
Tin	ppm	ASTM D5185m	>10	<1	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

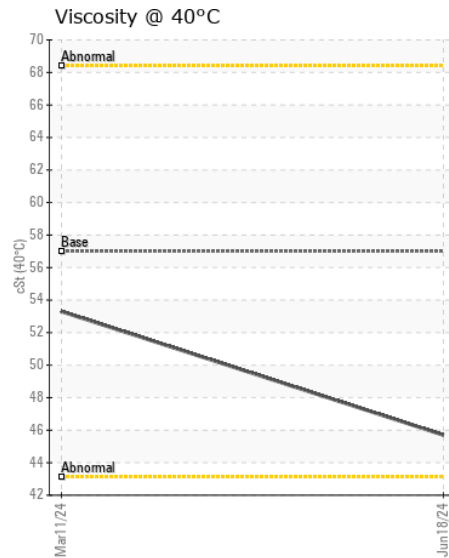
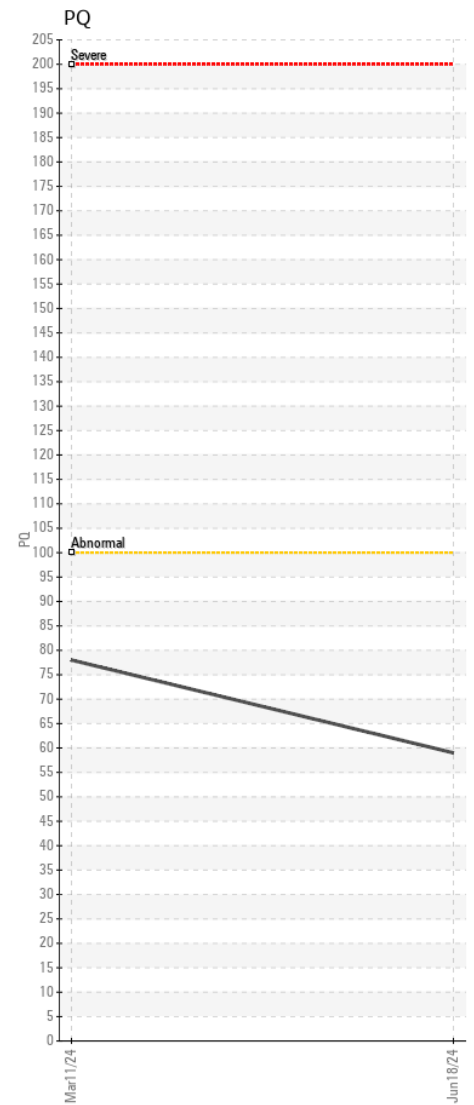
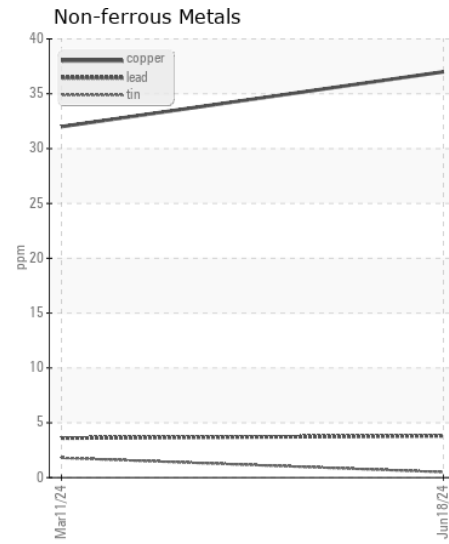
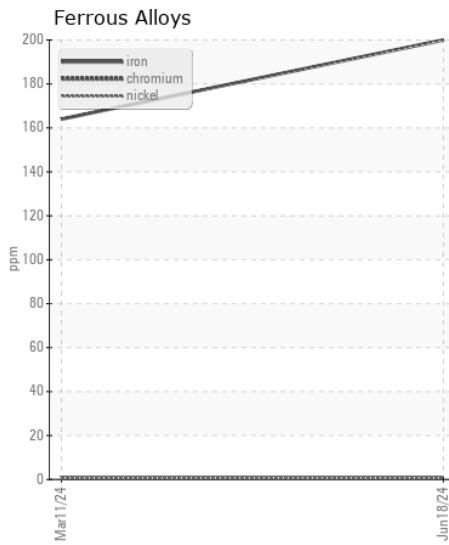
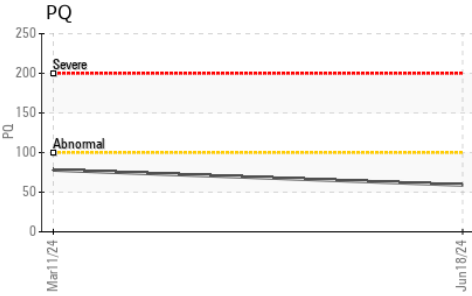
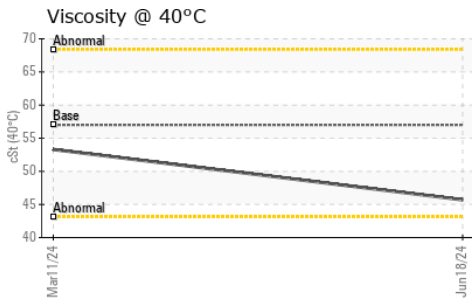
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	8	8	---
Potassium	ppm	ASTM D5185m	>20	1	0	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		9	7	---
Boron	ppm	ASTM D5185m	6	0	5	---
Barium	ppm	ASTM D5185m	0	4	4	---
Molybdenum	ppm	ASTM D5185m	0	0	4	---
Manganese	ppm	ASTM D5185m		6	6	---
Magnesium	ppm	ASTM D5185m	145	94	105	---
Calcium	ppm	ASTM D5185m	3570	3459	3162	---
Phosphorus	ppm	ASTM D5185m	1290	999	967	---
Zinc	ppm	ASTM D5185m	1640	1177	1093	---
Sulfur	ppm	ASTM D5185m		3970	3660	---
Visc @ 40°C	cSt	ASTM D445	57.0	45.7	53.3	---



Certificate L2367

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

Sample No. : JR0218219

Lab Number : 06215011

Unique Number : 11087875

Test Package : CONST (Additional Tests: PQ)

Received : 19 Jun 2024

Tested : 20 Jun 2024

Diagnosed : 20 Jun 2024 - Wes Davis

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

US 20111

Contact: TECHNICIAN ACCOUNT

catherine.anastasio@wearcheck.com

T:

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)

F: (703)631-4715