



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 544L 1DW544LZKKF699729

Component
Front Axle

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

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0222234	JR0186708	JR0153007
Sample Date		Client Info		07 Jul 2024	08 Oct 2023	20 Dec 2022
Machine Age	hrs	Client Info		4673	4236	3524
Oil Age	hrs	Client Info		437	4236	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		211	335	10
Iron	ppm	ASTM D5185m	>750	252	874	13
Chromium	ppm	ASTM D5185m	>11	2	6	<1
Nickel	ppm	ASTM D5185m	>10	0	4	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	2	0	1
Lead	ppm	ASTM D5185m	>49	<1	8	<1
Copper	ppm	ASTM D5185m	>101	4	25	0
Tin	ppm	ASTM D5185m	>10	0	4	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

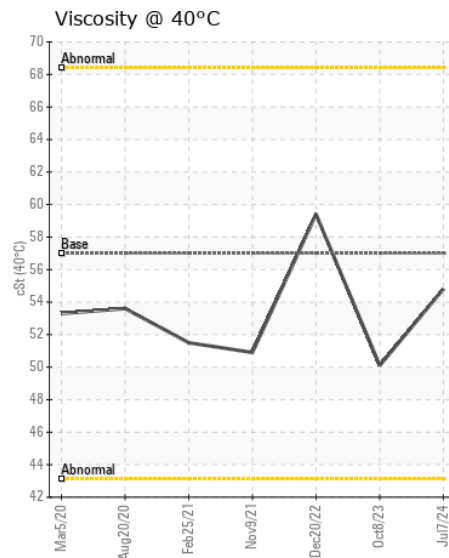
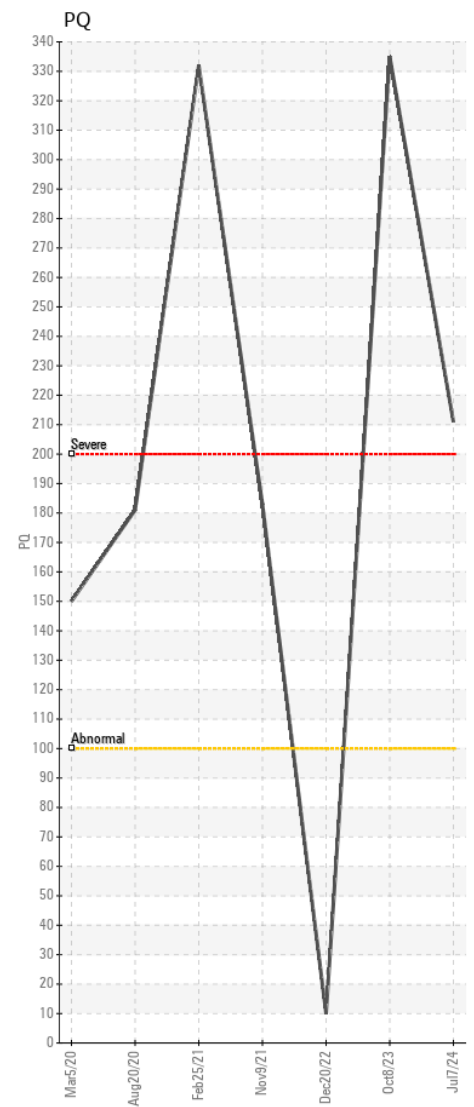
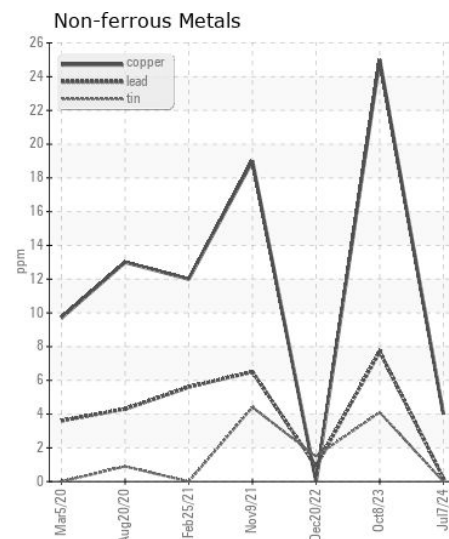
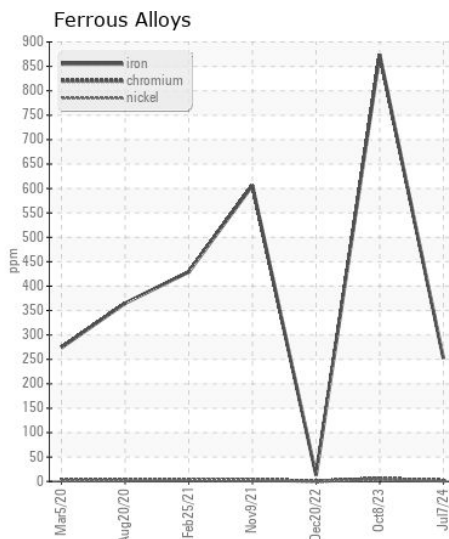
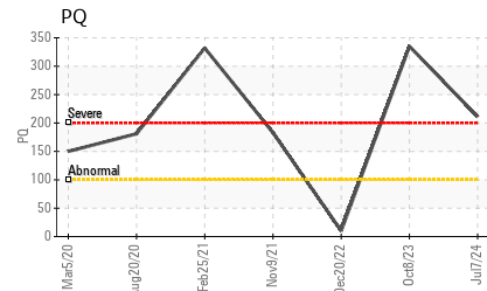
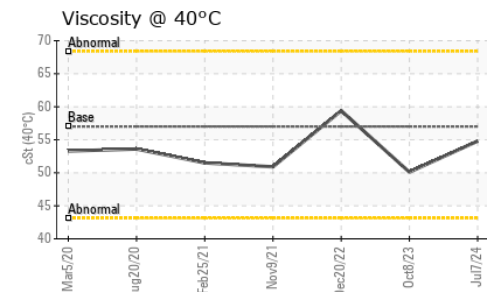
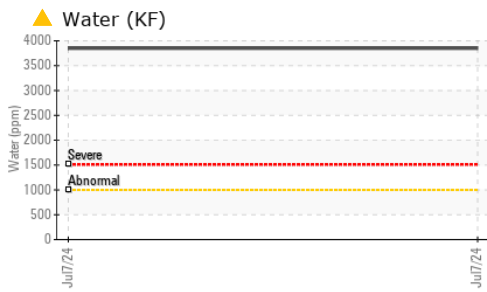
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>31	14	29	6
Potassium	ppm	ASTM D5185m	>20	<1	6	0
Water	%	ASTM D6304	>0.1	▲ 0.385	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 3850	---	---
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	▲ 0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	4	8	<1
Boron	ppm	ASTM D5185m	6	3	15	3
Barium	ppm	ASTM D5185m	0	<1	4	0
Molybdenum	ppm	ASTM D5185m	0	1	3	1
Manganese	ppm	ASTM D5185m		3	15	<1
Magnesium	ppm	ASTM D5185m	145	90	90	104
Calcium	ppm	ASTM D5185m	3570	3222	3256	3584
Phosphorus	ppm	ASTM D5185m	1290	1019	1001	1059
Zinc	ppm	ASTM D5185m	1640	1105	1162	1281
Sulfur	ppm	ASTM D5185m		4233	4069	4226
Visc @ 40°C	cSt	ASTM D445	57.0	54.8	50.1	59.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222234
Lab Number : 06232495
Unique Number : 11115988
Test Package : CONST (Additional Tests: KF, PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
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 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)