



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 524K DW524KZ622788
Component
Rear Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (19 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221797	JR0169926	JRMC250655
Sample Date		Client Info		01 Jul 2024	15 Aug 2023	15 Sep 2010
Machine Age	hrs	Client Info		18257	1794	505
Oil Age	hrs	Client Info		16146	1794	505
Filter Age	hrs	Client Info		16146	1794	505
Oil Changed		Client Info		N/A	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		44	112	---
Iron	ppm	ASTM D5185m	>750	110	599	128
Chromium	ppm	ASTM D5185m	>11	<1	2	<1
Nickel	ppm	ASTM D5185m	>10	<1	4	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>21	2	2	<1
Lead	ppm	ASTM D5185m	>49	<1	4	2
Copper	ppm	ASTM D5185m	>101	7	30	5
Tin	ppm	ASTM D5185m	>10	<1	3	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

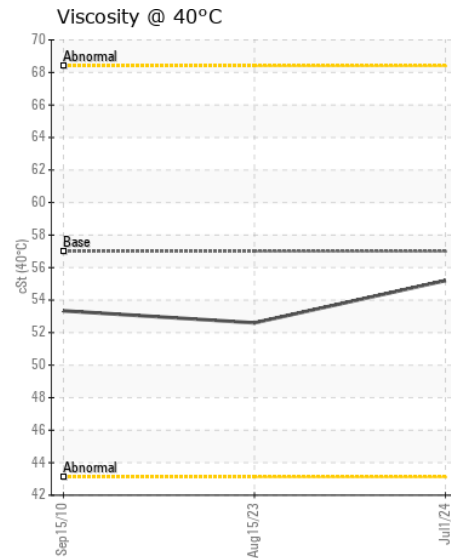
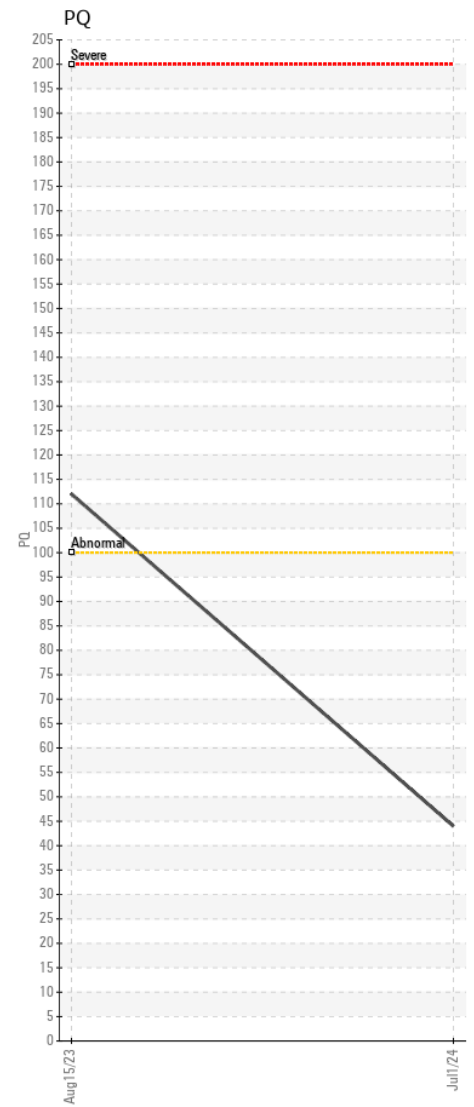
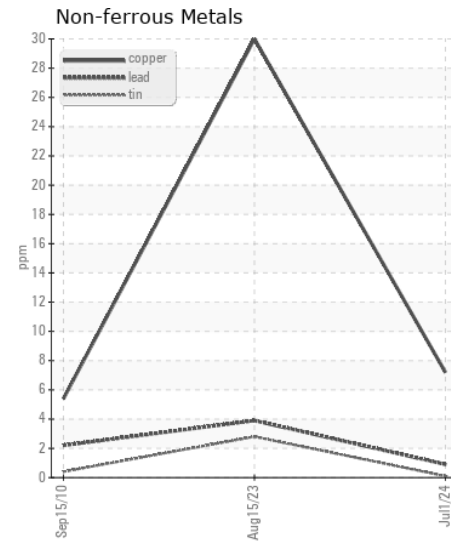
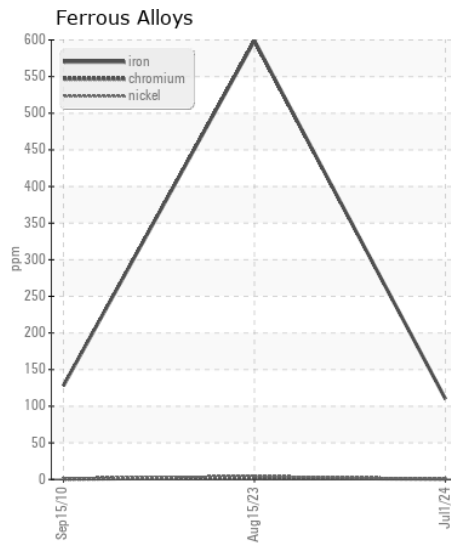
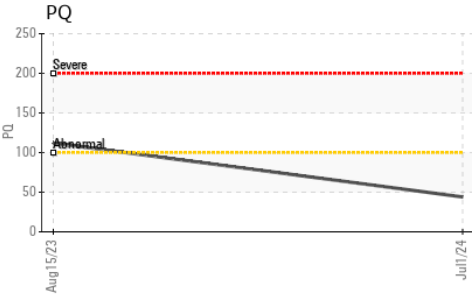
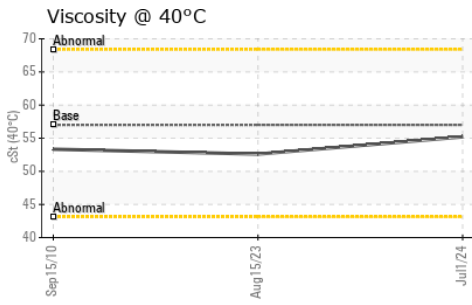
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	11	27	11
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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.

Sodium	ppm	ASTM D5185m	>51	3	2	3
Boron	ppm	ASTM D5185m	6	4	98	3
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	0	1	9	0
Manganese	ppm	ASTM D5185m		1	7	5
Magnesium	ppm	ASTM D5185m	145	102	102	89
Calcium	ppm	ASTM D5185m	3570	3804	3212	3080
Phosphorus	ppm	ASTM D5185m	1290	1087	1024	949
Zinc	ppm	ASTM D5185m	1640	1240	1266	1057
Sulfur	ppm	ASTM D5185m		4225	7792	3108
Visc @ 40°C	cSt	ASTM D445	57.0	55.2	52.6	53.34



Certificate L2367

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

Sample No. : JR0221797

Lab Number : 06228922

Unique Number : 11112415

Test Package : CONST (Additional Tests: PQ)

Received : 05 Jul 2024

Tested : 08 Jul 2024

Diagnosed : 08 Jul 2024 - Wes Davis

JRE - STEPHENSON

245 YARDMASTER COURT

STEPHENSON, VA

US 22656-1761

Contact: PHIL DAUGHERTY

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T: x:

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: (540)693-2588