



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 524K DW524KZ622788
Component
Transmission
Fluid
JOHN DEERE HY-GARD HYD/TRANS (20 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221785	JR0170320	JRMC259365
Sample Date		Client Info		01 Jul 2024	15 Aug 2023	14 Sep 2010
Machine Age	hrs	Client Info		18257	17940	505
Oil Age	hrs	Client Info		17940	0	505
Filter Age	hrs	Client Info		17940	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>100	16	14	---
Iron	ppm	ASTM D5185m	>61	28	29	12
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	<1
Lead	ppm	ASTM D5185m	>9	0	<1	0
Copper	ppm	ASTM D5185m	>100	11	11	17
Tin	ppm	ASTM D5185m	>3	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

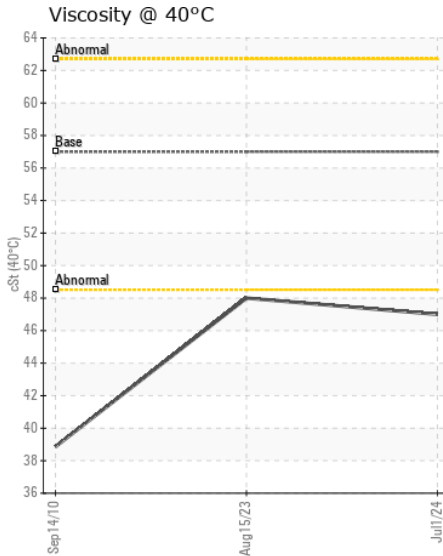
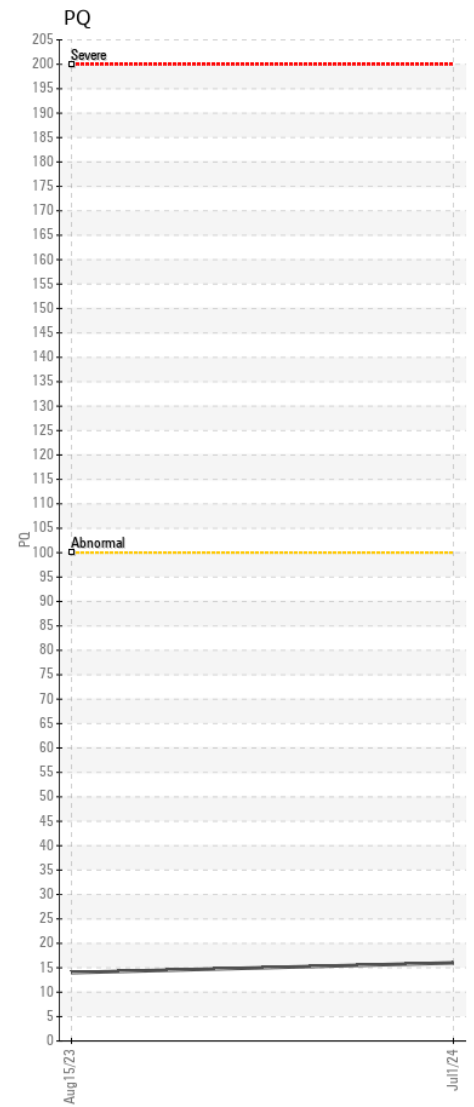
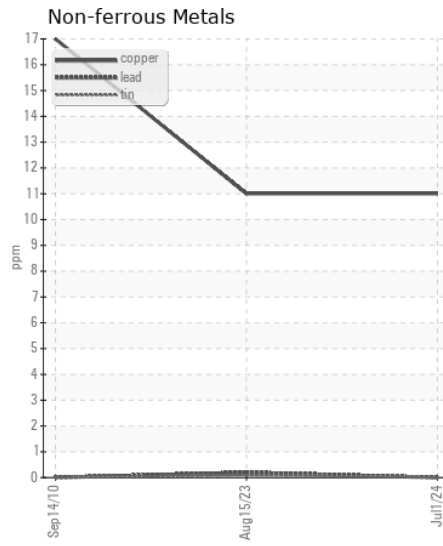
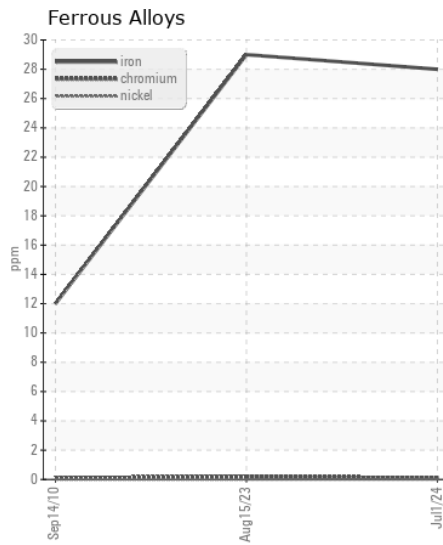
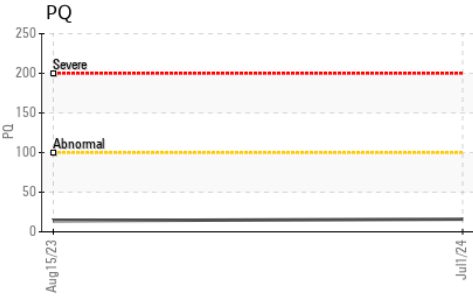
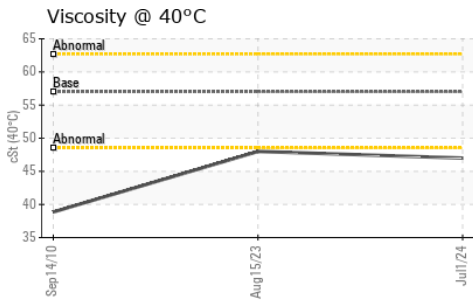
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>21	9	9	12
Potassium	ppm	ASTM D5185m	>20	0	1	15
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>30	4	0	28
Boron	ppm	ASTM D5185m	6	11	16	10
Barium	ppm	ASTM D5185m	0	<1	2	0
Molybdenum	ppm	ASTM D5185m	0	2	2	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	76	74	69
Calcium	ppm	ASTM D5185m	3570	3680	3641	2684
Phosphorus	ppm	ASTM D5185m	1290	1085	1096	910
Zinc	ppm	ASTM D5185m	1640	1236	1312	1073
Sulfur	ppm	ASTM D5185m		5498	5719	3151
Visc @ 40°C	cSt	ASTM D445	57.0	47.0	48.0	38.86



Certificate L2367

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

Sample No. : JR0221785

Lab Number : 06228866

Unique Number : 11112359

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)

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