

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



# JOHN DEERE 524K 1DW524KZHCE643734

Hydraulic System

### JOHN DEERE HYDRAU (--- GAL)

DIAGNOSIS
Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

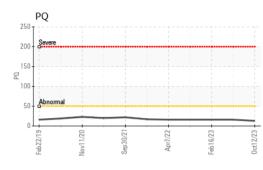
#### Fluid Condition

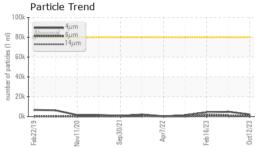
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

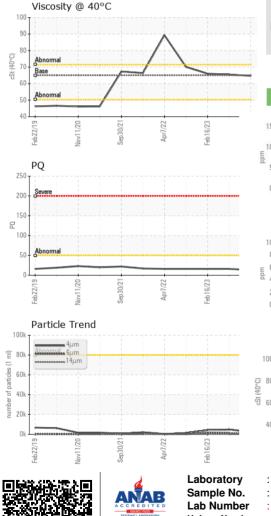
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0180549	JR0164690	JR0147397
Sample Date		Client Info		12 Oct 2023	30 May 2023	16 Feb 2023
Machine Age	hrs	Client Info		15592	15113	14647
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	13	16	16
Iron	ppm	ASTM D5185m	>71	5	5	3
Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>11	2	1	1
Lead	ppm	ASTM D5185m		0	0	1
Copper	ppm	ASTM D5185m	>21	2	<1	1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1. I.		limit/booo			bistory 0
		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		74	89	79
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		61	66	67
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	07	246	295	273
Calcium	ppm	ASTM D5185m	87	462	522	481
Phosphorus	ppm	ASTM D5185m	727	677	736	662
Zinc	ppm	ASTM D5185m	900	837	915	861
Sulfur	ppm	ASTM D5185m	1500	2201	2939	2737
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>24	4	4	3
Sodium	ppm	ASTM D5185m	>21	2	3	2
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	2247	4828	4197
Particles >6µm		ASTM D7647	>5000	729	1179	1421
Particles >14µm		ASTM D7647	>640	66	66	128
Particles >21µm		ASTM D7647	>160	13	16	24
Particles >38µm		ASTM D7647	>40	1	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	18/17/13	19/17/13	19/18/14
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.00	0.95	1.05
					0.00	



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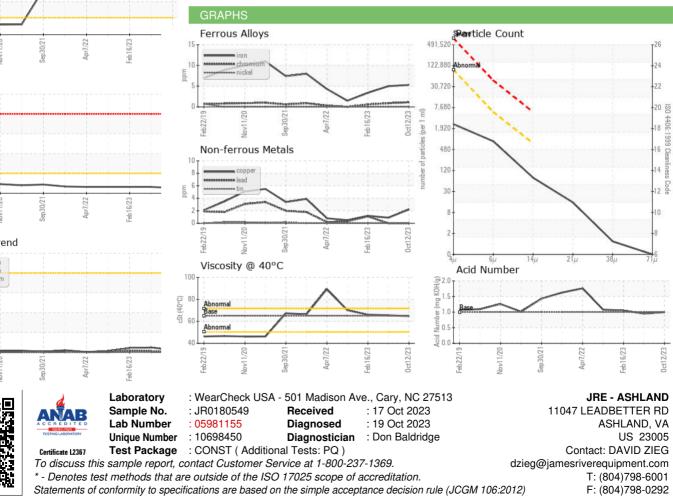






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65	64.7	65.5	66.0
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						
				A Comments	11 Alexandre	

Bottom



Contact/Location: DAVID ZIEG - JAMASH