

PROBLEM SUMMARY

Area [W47347] JOHN DEERE 844K 1DW844KAEJF688182 Component

Hydraulic System

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC T	EST RESI	ULTS					
Sample Status				AE	BNORMAL	ABNORMAL	ATTENTION
Particles >4µm	A	STM D7647	>5000		31869	1 2554	▲ 5586
Particles >6µm	A	STM D7647	>1300		10228	1 928	819
Particles >14µm	A	STM D7647	>160		1031	142	76
Particles >21µm	A	STM D7647	>40		246	22	20
Oil Cleanliness	15	SO 4406 (c)	>19/17/14		22/21/17	▲ 21/18/14	▲ 20/17/13

Customer Id: JAMASH Sample No.: JR0179109 Lab Number: 05982320 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

01 Sep 2023 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

24 Jul 2023 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

09 Jun 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.





OIL ANALYSIS REPORT

Area [W47347] **JOHN DEERE 844K 1DW844KAEJF688182** Component

Hydraulic System

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)



DIAGNOSIS	SAMPLE INFORMATION		method	limit/base	current	history1	history2	
Recommendation	Sample Number		Client Info		JR0179109	JR0180946	JR0165934	
The filter change at the time of sampling has been	Sample Date		Client Info		16 Oct 2023	01 Sep 2023	24 Jul 2023	
noted. Resample at the next service interval to	Machine Age	hrs	Client Info		7945	7475	6923	
monitor.	Oil Age	hrs	Client Info		0	0	0	
Wear	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
All component wear rates are normal.	Sample Status				ABNORMAL	ABNORMAL	ATTENTION	
Contamination There is a high amount of particulates present in	WEAR METALS		method	limit/base	current	history1	history2	
the oil.	PQ		ASTM D8184		17	16	16	
Fluid Condition	Iron	ppm	ASTM D5185m	>20	24	23	22	
The AN level is acceptable for this fluid. The	Chromium	ppm	ASTM D5185m	>10	9	9	8	
condition of the oil is suitable for further service.	Nickel	ppm	ASTM D5185m	>10	0	0	<1	
	Titanium	ppm	ASTM D5185m		0	0	<1	
	Silver	ppm	ASTM D5185m		0	0	0	
	Aluminum	ppm	ASTM D5185m	>10	2	2	3	
	Lead	ppm	ASTM D5185m	>10	0	0	<1	
	Copper	ppm	ASTM D5185m	>75	9	9	9	
	Tin	ppm	ASTM D5185m	>10	0	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	0	
	Cadmium	ppm	ASTM D5185m		0	0	0	
	ADDITIVES		method	limit/base	current	history1	history2	
	Boron	ppm	ASTM D5185m		137	146	145	
	Barium	ppm	ASTM D5185m		0	7	2	
	Molybdenum	ppm	ASTM D5185m		108	110	113	
	Manganese	ppm	ASTM D5185m		0	0	<1	
	Magnesium	ppm	ASTM D5185m		345	346	340	
	Calcium	ppm	ASTM D5185m		1333	1301	1371	
	Phosphorus	ppm	ASTM D5185m		852	795	849	
	Zinc	ppm	ASTM D5185m		1042	970	1018	
	Sulfur	ppm	ASTM D5185m		2944	3238	2911	
	CONTAMINANTS		method	limit/base	current	history1	history2	
	Silicon	ppm	ASTM D5185m	>20	6	6	6	
	Sodium	ppm	ASTM D5185m		4	4	<1	
	Potassium	ppm	ASTM D5185m	>20	<1	<1	3	
	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
	Particles >4µm		ASTM D7647	>5000	A 31869	12554	▲ 5586	
	Particles >6µm		ASTM D7647	>1300	<u> </u>	1 928	819	
	Particles >14µm		ASTM D7647	>160	<u> </u>	142	76	
	Particles >21µm		ASTM D7647	>40	<u> </u>	22	20	
	Particles >38µm		ASTM D7647	>10	7	0	2	
	Particles >71µm		ASTM D7647	>3	0	0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 22/21/17	▲ 21/18/14	▲ 20/17/13	
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
	Acid Number (AN)	mg KOH/a	ASTM D8045		1.00	1.01	1.08	

Report Id: JAMASH [WUSCAR] 05982320 (Generated: 10/20/2023 09:57:24) Rev: 1



Vug13/

1.2 (B/HOX) Ē 0.8 Acid Number

0.2

0.0

140

120

() 100 (+00 (+00)

80

60

40

250

200

150

50

2 100

Aug13/1

cSt (

\ug1

Aar31

Acid Number

OIL ANALYSIS REPORT





Color



Bottom



Contact/Location: DAVID ZIEG - JAMASH