

OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area [W49983] **JOHN DEERE 824K 1DW824KXPKF694323**

Hydraulic System

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





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The chromium level is abnormal. All other component wear rates are normal.

Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

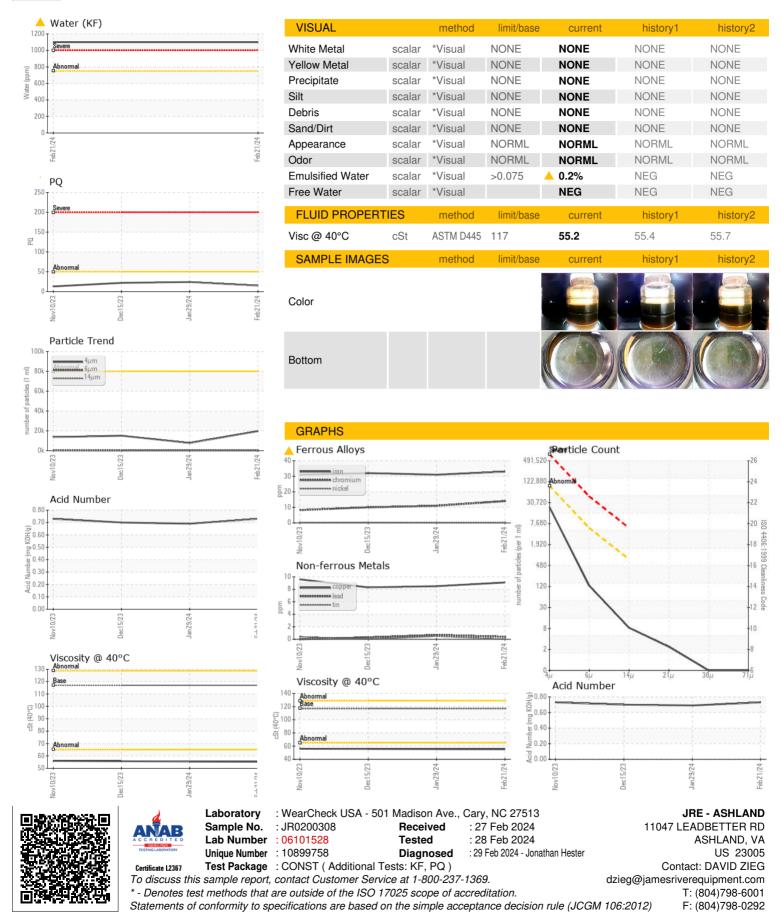
`		Nov202	3 Dec2023	Jan2024 F	eb2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0200308	JR0199788	JR0180719
Sample Date		Client Info		21 Feb 2024	29 Jan 2024	15 Dec 2023
Machine Age	hrs	Client Info		5029	4854	4354
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	15	24	22
Iron	ppm	ASTM D5185m	>71	33	31	32
Chromium	ppm	ASTM D5185m	>11	14	11	10
Nickel	ppm	ASTM D5185m	>6	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>11	2	3	4
Lead	ppm	ASTM D5185m	>13	<1	<1	<1
Copper	ppm	ASTM D5185m	>21	9	8	8
Tin	ppm	ASTM D5185m	>5	0	<1	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		0	<1	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	3
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		15	6	10
Calcium	ppm	ASTM D5185m		105	89	92
Phosphorus	ppm	ASTM D5185m		566	596	589
Zinc	ppm	ASTM D5185m		809	802	792
Sulfur	ppm	ASTM D5185m		1488	1563	1528
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>24	5	6	6
Sodium	ppm	ASTM D5185m	>21	<1	4	6
Potassium	ppm	ASTM D5185m	>20	0	3	3
Water	%	ASTM D6304	>0.075	<u> </u>		
ppm Water	ppm	ASTM D6304	>750	<u> </u>		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	19727	7710	15098
Particles >6µm		ASTM D7647	>5000	112	170	105
Particles >14µm		ASTM D7647	>640	7	19	6
Particles >21µm		ASTM D7647	>160	2	5	3
Particles >38µm						_
. a		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647 ASTM D7647		0	0	0
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0.69

0.70



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Contact/Location: DAVID ZIEG - JAMASH