

OIL ANALYSIS REPORT

[W48387] **JOHN DEERE 824L 1DW824LXKNL713524** Component

Diesel Engine

Fluid

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

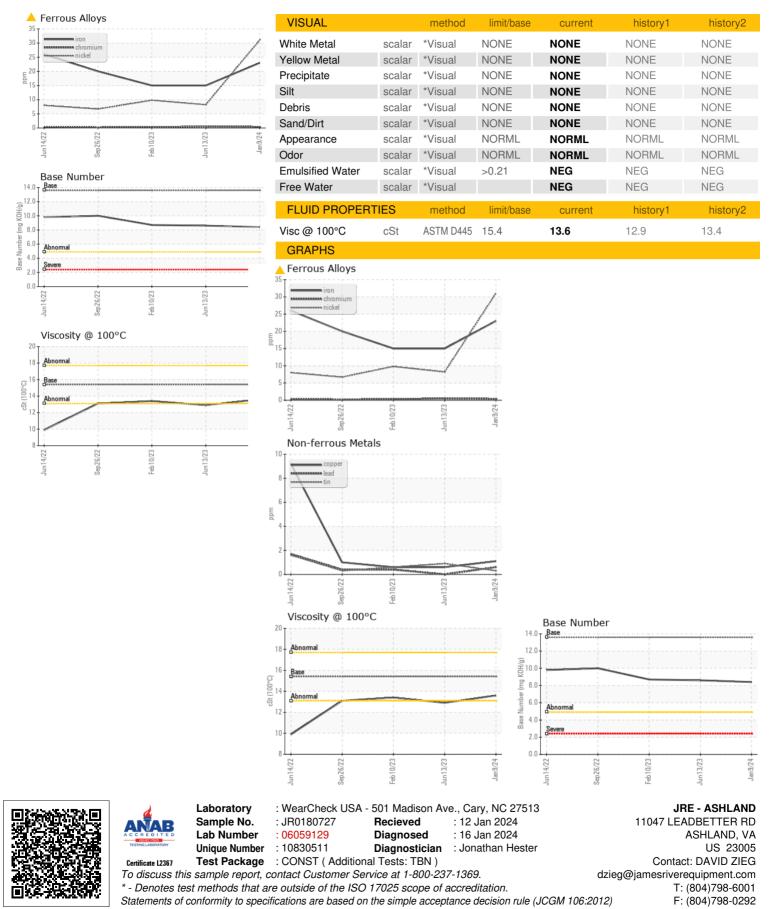
			Jun2022	Sepzüzz	H802023 JUN2023	Jan2024	
DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		JR0180727	JR0165586	JR0147863
Oil and filter change at the time of sampling has	Sample Date		Client Info		09 Jan 2024	13 Jun 2023	10 Feb 2023
been noted. We recommend an early resample to	Machine Age	hrs	Client Info		2471	1992	1440
monitor this condition.	Oil Age	hrs	Client Info		0	0	0
🔺 Wear	Oil Changed		Client Info		Changed	Changed	Changed
Valve wear is indicated.	Sample Status				ABNORMAL	NORMAL	NORMAL
Contamination There is no indication of any contamination in the	CONTAMINATIO	N	method	limit/base	current	history1	history2
oil.	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Fluid Condition	Water		WC Method	>0.21	NEG	NEG	NEG
The BN result indicates that there is suitable	Glycol		WC Method		NEG	NEG	NEG
alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>51	23	15	15
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		▲ 31	8	10
	Titanium	ppm	ASTM D5185m	-	<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	4	2
	Lead		ASTM D5185m		۰ 1	0	<1
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		، <1	<1	<1
	Vanadium	ppm	ASTM D5185m	>4	<1		
		ppm				<1	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m		274	201	227
	Barium	ppm	ASTM D5185m		3	0	0
	Molybdenum	ppm	ASTM D5185m		266	221	229
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		824	746	794
	Calcium	ppm	ASTM D5185m		1447	1387	1458
	Phosphorus	ppm	ASTM D5185m		924	868	832
	Zinc	ppm	ASTM D5185m		1124	1093	1059
	Sulfur	ppm	ASTM D5185m		3495	3679	3360
	CONTAMINANTS		method	limit/base	current	history1	history2
			ASTM D5185m	<u>_</u> 22	8	7	6
	Silicon	ppm	ASTIVI DSTOSIII	>	0		
	Silicon Sodium	ppm ppm	ASTM D5185m		0	2	1
		ppm		>31			
	Sodium		ASTM D5185m	>31	0 2	2	1
	Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m method	>31 >20 limit/base	0 2 current	2 1 history1	1 <1 history2
	Sodium Potassium INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m method *ASTM D7844	>31 >20 limit/base >3	0 2 current 0.4	2 1 history1 0.4	1 <1 history2 0.3
	Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>31 >20 limit/base >3 >20	0 2 current 0.4 8.0	2 1 history1 0.4 8.3	1 <1 history2 0.3 7.7
	Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>31 >20 limit/base >3 >20 >30	0 2 current 0.4 8.0 21.2	2 1 history1 0.4 8.3 22.0	1 <1 0.3 7.7 20.8
	Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>31 >20 limit/base >3 >20	0 2 current 0.4 8.0 21.2	2 1 history1 0.4 8.3	1 <1 history2 0.3 7.7
	Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>31 >20 limit/base >3 >20 >30 limit/base	0 2 current 0.4 8.0 21.2	2 1 history1 0.4 8.3 22.0	1 <1 0.3 7.7 20.8

Sample Rating Trend

WEAR



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