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JOHN DEERE 524K 1DW524KZHCE643734

Component Rear Differential

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

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

CONTAMINATION

There is no indication of any contamination in the oil.

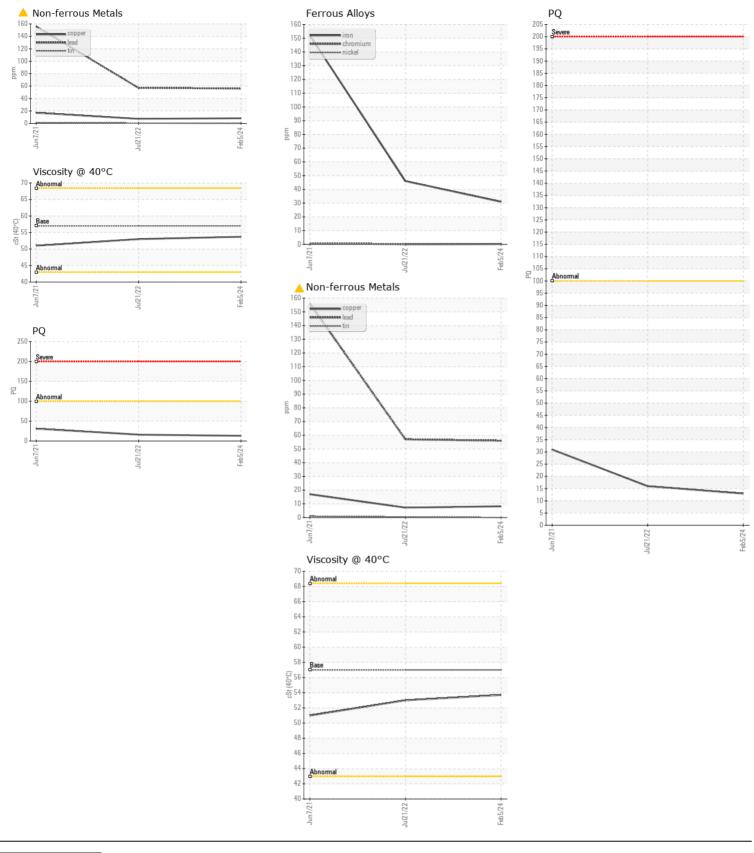
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The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0199948	JR0125585	JR0088050
Sample Date		Client Info		05 Feb 2024	21 Jul 2022	07 Jun 2021
Machine Age	hrs	Client Info		16065	13720	11860
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
DO					4.0	
PQ		ASTM D8184		13	16	31
Iron	ppm	ASTM D5185m	>500	31	46	152
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	0.5	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	0	1
Lead	ppm	ASTM D5185m	>25	<u> </u>	57	<u> </u>
Copper	ppm	ASTM D5185m	>100	8	7	17
Tin	ppm	ASTM D5185m	>10	0	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	3	4	12
	le le	AO INI DOTODITI	210	3	-	12
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Potassium Water				-		
		ASTM D5185m	>20	2	0	<1
Water	ppm	ASTM D5185m WC Method	>20 >.2	2 NEG	0 NEG	<1 NEG
Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >.2 NONE	2 NEG NONE	0 NEG NONE	<1 NEG NONE
Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >.2 NONE NONE	2 NEG NONE NONE	0 NEG NONE NONE	<1 NEG NONE NONE
Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >.2 NONE NONE NONE	2 NEG NONE NONE NONE	0 NEG NONE NONE	<1 NEG NONE NONE
Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NONE NORML	2 NEG NONE NONE NONE NORML	0 NEG NONE NONE NONE NORML	<1 NEG NONE NONE NONE NORML
Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NORML NORML	2 NEG NONE NONE NONE NORML NORML	0 NEG NONE NONE NONE NORML NORML	<pre><1 NEG NONE NONE NONE NONE NORML NORML</pre>
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG	0 NEG NONE NONE NORML NORML NEG	<pre><1 NEG NONE NONE NONE NORML NORML NEG</pre>
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2	2 NEG NONE NONE NORML NORML NEG	0 NEG NONE NONE NORML NORML NEG 1	<1 NEG NONE NONE NORML NORML NEG 3
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 NONE NONE NORML >.2	2 NEG NONE NONE NORML NORML NEG 1 3	0 NEG NONE NONE NORML NORML NEG 1 4	<pre><1 NEG NONE NONE NONE NORML NORML NEG 3 16</pre>
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2	2 NEG NONE NONE NORML NORML NEG 1 3 2	0 NEG NONE NONE NORML NORML NEG 1 4	<pre><1 NEG NONE NONE NONE NORML NORML NEG 3 16 0</pre>
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2	2 NEG NONE NONE NORML NORML NEG 1 3 2 1	0 NEG NONE NONE NORML NORML NEG 1 4 0 1	<pre><1 NEG NONE NONE NORML NORML NEG 3 16 0 1</pre>
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2 6 0	2 NEG NONE NONE NORML NORML NEG 1 3 2 1 3 2 1	0 NEG NONE NONE NORML NORML NEG 1 4 0 1 4	<pre><1 NEG NONE NONE NORML NORML NEG 3 16 0 1 1</pre>
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2 6 0 0	2 NEG NONE NONE NORML NORML NEG 1 3 2 1 3 2 1 0 93	0 NEG NONE NONE NORML NORML NEG 1 4 0 1 4 0 1 4 93	 <1 NEG NONE NONE NORML NORML NEG 3 16 0 1 1 87
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2 6 0 0 0 145 3570	2 NEG NONE NONE NORML NORML NEG 1 3 2 1 3 2 1 0 93 3165	0 NEG NONE NONE NORML NORML NEG 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 3 3506	<1 NEG NONE NONE NORML NORML NORML NEG 3 16 0 1 1 1 87 3134
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML >.2 6 0 0 0 145 3570 1290	2 NEG NONE NONE NORML NORML NEG 1 3 2 1 0 93 3165 901	0 NEG NONE NONE NORML NORML NEG 1 4 0 1 4 0 1 4 93 3506 986	 <1 NEG NONE NONE NORML NORML NEG 3 16 0 1 87 3134 929

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Contact/Location: DAVID ZIEG - JAMASH



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Sample No. : JR0199948 Received 11047 LEADBETTER RD :07 Feb 2024 Lab Number : 06082753 ASHLAND, VA Tested :08 Feb 2024 : 09 Feb 2024 - Sean Felton Unique Number : 10870198 US 23005 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 回新 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DAVID ZIEG - JAMASH