

Machine Id JOHN DEERE 700L 1T0700LXTNF426018 Component Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

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

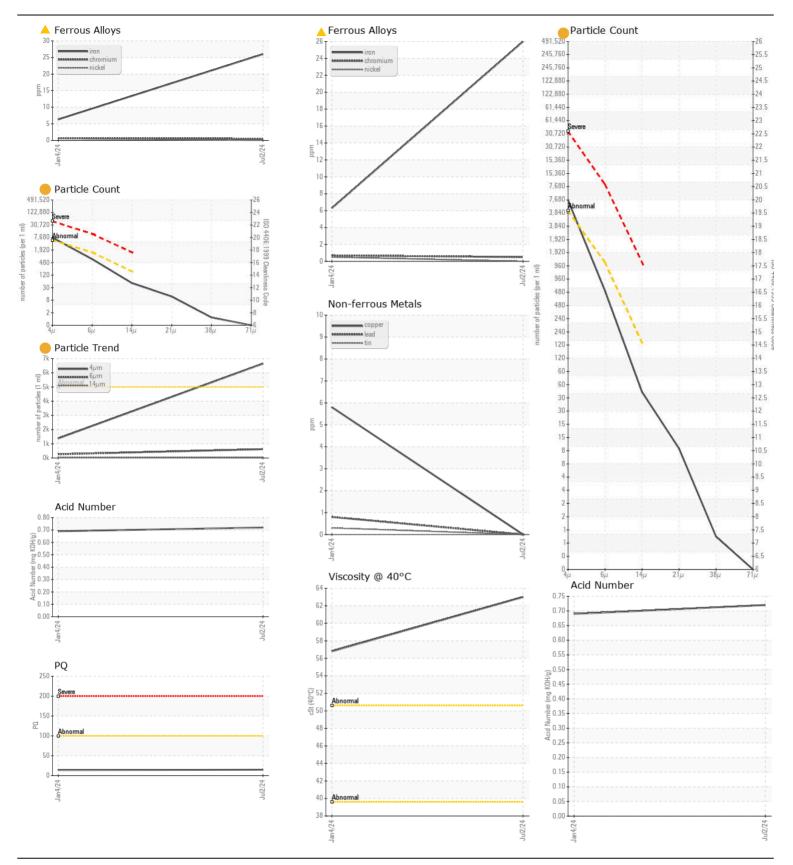
CONTAMINATION

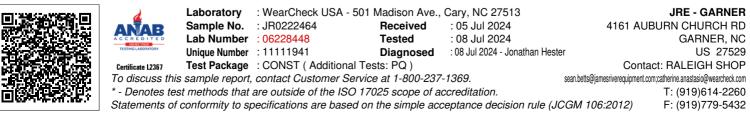
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

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

Test UOM Method Limit Mo Current History1 History2 Sample Dumber Client Info Q2022464 JR0222464 JR0174393 Machine Age hrs Client Info Q20204 Q12024 Q12044 Q12024 Q12024 Q12024 Q12024 Q12024 Q12024 Q12024 Q12024							
Sample Date Client Info 02 Jul 2024 04 Jan 2024 Machine Age hrs Client Info 1450 1113 Oil Age hrs Client Info 0 0 Oil Changed Client Info Not Changd N/A Filter Changed Client Info Not Changd N/A Sample Status ASTM D5185 >20 A ENORMAL NORMAL PQ ASTM D5185 >20 A ENORMAL NORMAL Siter ppm ASTM D5185 >20 A ENO <1 <1 Nickel ppm ASTM D5185 >10 0 <1 <1 Silver ppm ASTM D5185 >10 0 <1 Silver ppm ASTM D5185 >10 0 <1 Vanadium ppm ASTM D5185 >20 0 0	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Oil Age hrs Client Info 1450 1113 Filter Age hrs Client Info 0 0 Filter Age hrs Client Info Not Changd N/A Sample Status Client Info Not Changd N/A PQ ASTM D8184 15 14 Iron ppm ASTM D5185m >10 <1 <1 Nickel ppm ASTM D5185m >10 0 <1 Aluminum ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 < Velaed vvis	Sample Number		Client Info		JR0222464	JR0174393	
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Filter Changed Sample Status Client Info Not Changd ABNORMAL N/A	0	-			Not Changd	N/A	
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Chromium ppm ASTM D5185m >10 <1	PQ		ASTM D8184		15	14	
Nickel ppm ASTM D5185m >10 0 <1	Iron	ppm	ASTM D5185m	>20	🔺 26	6	
Titanium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>10	<1	<1	
Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >10 6 2 Lead ppm ASTM D5185m >10 0 <1 Copper ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >20 11 3 Yellow Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE Yellow Metal scalar ASTM D7647 >5000 6641 1380 Particles >4µm ASTM D7647 >10 <th>Nickel</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>10</th> <th>0</th> <th><1</th> <th></th>	Nickel	ppm	ASTM D5185m	>10	0	<1	
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Lead ppm ASTM D5185m >10 0 <1	Silver	ppm	ASTM D5185m		0	0	
Copper ppm ASTM D5185m >75 0 6 Tin ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m 0 0 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >20 2 2 Potassium ppm ASTM D5185m >20 2 2 Particles >4µm ASTM D7647 >5000 6641 1380 Particles >4µm ASTM D7647 >100 6 Particles >21µm ASTM D7647 >10 1 0 Particles >21µm ASTM D7647 >3 0 0 Solt scalar *Visual NONE NONE NONE	Aluminum	ppm	ASTM D5185m	>10	6	2	
Tin ppm ASTM D5185m >10 0 <1	Lead	ppm	ASTM D5185m	>10	0	<1	
Tin ppm ASTM D5185m >10 0 <1	Copper		ASTM D5185m	>75	0	6	
Vanadium ppm ASTM D5185m 0 0			ASTM D5185m	>10	0	<1	
Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >20 2 2 Potassium ppm ASTM D5185m >20 2 2 Water WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >5000 ● 6641 1380 Particles >6µm ASTM D7647 >100 620 265 Particles >6µm ASTM D7647 >10 1 0 Particles >21µm ASTM D7647 >10 1 0 Particles >38µm ASTM D7647 >10 1 0 Particles >71µm ASTM D7647 >10 1 0 Solt scalar *Visual NONE NONE Debris scalar *Visual NONE NORL Appearance scalar <th>Vanadium</th> <th></th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th></th>	Vanadium		ASTM D5185m		0	0	
Silicon ppm ASTM D5185m >20 11 3 Potassium ppm ASTM D5185m >20 2 2 Water WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >5000 6641 1380 Particles >6µm ASTM D7647 >1300 620 265 Particles >6µm ASTM D7647 >160 44 24 Particles >1µm ASTM D7647 >10 1 0 Particles >31µm ASTM D7647 >10 1 0 Particles >31µm ASTM D7647 >10 1 0 Particles >31µm ASTM D7647 >3 0 0 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NORML NORML NORML Appearance <th>White Metal</th> <th>scalar</th> <th>*Visual</th> <th>NONE</th> <th>NONE</th> <th>NONE</th> <th></th>	White Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium ppm ASTM D5185m >20 2 2 Water WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >5000 6641 1380 Particles >6µm ASTM D7647 >1300 620 265 Particles >14µm ASTM D7647 >160 44 24 Particles >21µm ASTM D7647 >10 1 0 Particles >38µm ASTM D7647 >10 1 0 Particles >71µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >1917/14 © 2016/13 18/15/12 Silt scalar *Visual NONE NONE Debris scalar *Visual NORML NORML NORML Appearance	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium ppm ASTM D5185m >20 2 2 Water WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >5000 6641 1380 Particles >6µm ASTM D7647 >1300 620 265 Particles >14µm ASTM D7647 >160 44 24 Particles >21µm ASTM D7647 >10 1 0 Particles >38µm ASTM D7647 >10 1 0 Particles >71µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >1917/14 © 2016/13 18/15/12 Silt scalar *Visual NONE NONE Debris scalar *Visual NORML NORML NORML Appearance							
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Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG Sodium ppm ASTM D5185m 2 0 Boron ppm ASTM D5185m 2 0 Barium ppm ASTM D5185m 0 8 Molybdenum ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m <24 1 Magnesium ppm ASTM D5185m <24 1 Phosphorus ppm ASTM D5185m <333 Phosphorus ppm ASTM D5185m 928 1091 Sulfur ppm ASTM D5185m 2936 2283 Acid Number (AN) mg KOH/g ASTM D8045 0.72 0.69	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water scalar *Visual >0.1 NEG NEG Sodium ppm ASTM D5185m 2 0 Boron ppm ASTM D5185m 2 0 Barium ppm ASTM D5185m 0 8 Molybdenum ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m <1 <1 Magnesium ppm ASTM D5185m <24 1 Calcium ppm ASTM D5185m 1458 106 Phosphorus ppm ASTM D5185m 770 833 Sulfur ppm ASTM D5185m 928 1091 Sulfur ppm ASTM D5185m 2936 2283 Acid Number (AN) mg KOH/g ASTM D8045 0.72 0.69	Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium ppm ASTM D5185m 2 0 Boron ppm ASTM D5185m 2 0 Barium ppm ASTM D5185m 0 8 Barium ppm ASTM D5185m 0 8 Molybdenum ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m <1 <1 Magnesium ppm ASTM D5185m 24 1 Calcium ppm ASTM D5185m 1458 106 Phosphorus ppm ASTM D5185m 770 833 Zinc ppm ASTM D5185m 928 1091 Sulfur ppm ASTM D5185m 2936 2283 Acid Number (AN) mg KOH/g ASTM D8045 0.72 0.69	Odor	scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 2 0 Barium ppm ASTM D5185m 0 8 Molybdenum ppm ASTM D5185m 0 <1 Manganese ppm ASTM D5185m <1 <1 Magnesium ppm ASTM D5185m 24 1 Calcium ppm ASTM D5185m 1458 106 Phosphorus ppm ASTM D5185m 770 833 Zinc ppm ASTM D5185m 928 1091 Sulfur ppm ASTM D5185m 2936 2283 Acid Number (AN) mg KOH/g ASTM D8045 0.72 0.69	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
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Molybdenum ppm ASTM D5185m 0 <1							
Manganese ppm ASTM D5185m <1							
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Calcium ppm ASTM D5185m 1458 106 Phosphorus ppm ASTM D5185m 770 833 Zinc ppm ASTM D5185m 928 1091 Sulfur ppm ASTM D5185m 2936 2283 Acid Number (AN) mg KOH/g ASTM D8045 0.72 0.69	.						
Phosphorus ppm ASTM D5185m 770 833 Zinc ppm ASTM D5185m 928 1091 Sulfur ppm ASTM D5185m 2936 2283 Acid Number (AN) mg KOH/g ASTM D8045 0.72 0.69	0						
Zinc ppm ASTM D5185m 928 1091 Sulfur ppm ASTM D5185m 2936 2283 Acid Number (AN) mg KOH/g ASTM D8045 0.72 0.69							
Sulfur ppm ASTM D5185m 2936 2283 Acid Number (AN) mg KOH/g ASTM D8045 0.72 0.69							
Acid Number (AN) mg KOH/g ASTM D8045 0.72 0.69	-		ASTM D5185m			1091	
		ppm			2936		
Visc @ 40°C cSt ASTM D445 63.0 56.8	· · · /	mg KOH/g					
	Visc @ 40°C	cSt	ASTM D445		63.0	56.8	





Submitted By: RENN MASHBURN Page 2 of 2