

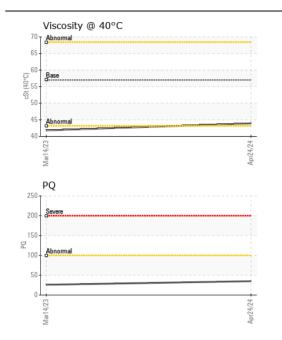
Store 5 - Cross Lanes **JOHN DEERE 648L2 1DW648LBJJF692956** noner

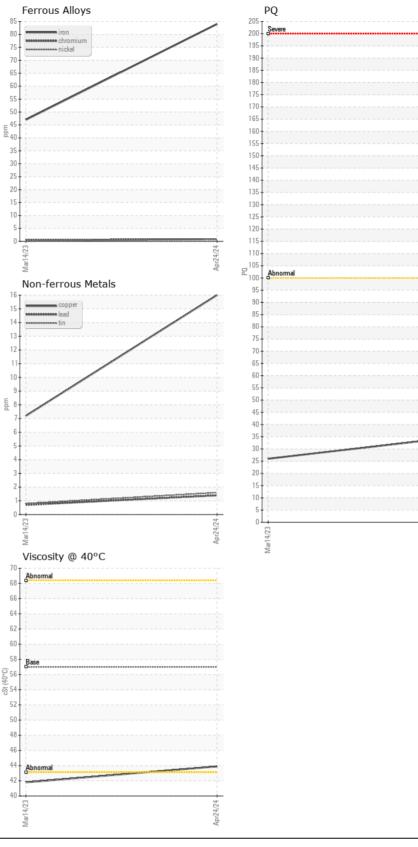
Rear Axle

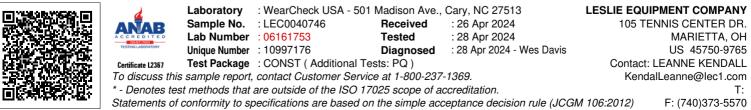
JOHN DEERE HY-GARD HYD/TRANS (9 GAL)

Sample Number Client Info LEC0091744 LeC0031744 LeC	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Data Sample Data Clint Info Sample Data Clint Info Sample Data Sample Data								,
Machine Age Into Gissi Siza Into Old Age Into Old Filter Age Client Info GOD No No Filter Age Into Old Client Info Con No No No WEAR Point Client Info Point Sample Station No	Resample at the next service interval to monitor.							
Oil Aga hrs Client Info S00 512.3 Filter Aga hrs Client Info Changed Mol Cha			hrs					
Filter Age hrs Client Ind ≤ 500 0 OI Changed Client Ind Client Ind Not Changed		-						
Oil Changed Client Ind Changed Nat Changed <		Ū						
Filter Changed Client into No Phane NA Picture Sample Status NSTMORIM NORMAL		-						
NORMANORMANORMANORMANORMANORMANormaWEARPQSTM DB3STM DB3 <th></th> <th>_</th> <th></th> <th>Client Info</th> <th></th> <th>-</th> <th>N/A</th> <th></th>		_		Client Info		-	N/A	
Iron ppm ATM D5185s >750 84 470 Chromium pm ASM D5185m >11 C1 0 Nickel ppm ASM D5185m >10 C1 0 Nickel ppm ASM D5185m V C1 0 Nickel ppm ASM D5185m V C1 0 Aluminum ppm ASM D5185m V C1 0 Aluminum ppm ASM D5185m >10 16 7 Copper ppm ASM D5185m >10 16 7 Tin ppm ASM D5185m >10 16 1 Waidum ppm ASM D5185m >10 16 1 Waidum ppm ASM D5185m >10 1 1 Waidum ppm ASM D5185m >10 1 <td< th=""><th></th><th>-</th><th></th><th></th><th></th><th></th><th>NORMAL</th><th></th></td<>		-					NORMAL	
All component weak haves are notimat. Chromium ppm ASTM D5185m >11 <1	WEAR	PQ		ASTM D8184		35	26	
Chromium ppm ASTM 05156 i=1	All component wear rates are normal.	Iron	ppm	ASTM D5185m	>750	84	47	
Titanium ppm ASTM DS185m		Chromium	ppm	ASTM D5185m	>11	<1	<1	
Silver ppm ASTM D515m C 0 0 Aluminum ppm ASTM D515m >21 4 <-1 Lead ppm ASTM D515m >21 1 <-1 Cooper ppm ASTM D515m >10 1 <-1 Cooper ppm ASTM D515m >10 2 <1 Tin ppm ASTM D515m >10 2 <1 Vanadium ppm ASTM D515m >10 2 <1 White Metal scalar 'Visual NONE NONE NONE There is no indication of any contamination in the oil. Silic scalar 'Visual NONE NONE NONE Solid scalar 'Visual NONE NONE NORE Appearance scalar 'Visual NORM NORM Moder scal		Nickel	ppm	ASTM D5185m	>10	<1	0	
AluminumpmASTM D5169>214<1		Titanium	ppm	ASTM D5185m		<1	<1	
Lead ppm ASTM D5185 -49 1 <1 Copper ppm ASTM D5185 -101 16 7 Tin ppm ASTM D5185 -10 2 <1 Vanadium ppm ASTM D5185 -10 NONE NONE White Metal scalar Visual NONE NONE NONE Valow Metal scalar Visual NONE NONE NONE CONTAMINATION Silicon pm ASTM D5185 -31 6 5 Mater Visual NONE NONE NONE Vater Visual NONE NONE NONE Sand/D1t scalar Visual NONE NONE Sand/D1t scalar Visual NONE NONE Sand/D1t scalar Visual NORM NORM Sand/D1t scalar Visual NORM NORM		Silver	ppm	ASTM D5185m		0	0	
Copper pp ASTM D5185n >101 16 7 Tin ppm ASTM D5185n >10 2 <1 Vanadium ppm ASTM D5185n >10 21 <1 Vanadium ppm ASTM D5185n >10 C1 < White Metal scalar 'Visual NONE NONE NONE NONE White Metal scalar 'Visual NONE NONE NONE There is no indication of any contamination in the oil. Silicon pm ASTM D5185n >31 66 5 Water Volual NONE NONE NONE NONE NONE Sand/Dirit scalar 'Visual NONE NONE NONE NORE NORE Appearance scalar 'Visual NOR NORE NORE NORE FLUD CONDITION Noredinis accep		Aluminum	ppm	ASTM D5185m	>21	4	<1	
TinpmASTM D5186m>102<1		Lead	ppm	ASTM D5185m	>49	1	<1	
VanadiumppmASTM D5185m<		Copper	ppm	ASTM D5185m	>101	16	7	
White Metal scalar 'Visual NONE NONE NONE Yellow Metal scalar 'Visual NONE NONE NONE NONE CONTAMINATION Silicon ppm ASTM D516sn >31 6 5 There is no indication of any contamination in the oil. Potassium ppm ASTM D516sn >20 2 <1 Silicon ppm ASTM D516sn >20 2 <1 Mater Water WC Method >0.1 NORE NORE Silit scalar 'Visual NOR NORE NORE Sand/Dirt scalar 'Visual NOR NORE NORE Appearance scalar 'Visual NORM NORME NORME FLUID CONDITION Nore Nore Nore Nore Name ppm ASTM D515m 0 2 Marganese ppm ASTM D515m 6 16 43		Tin	ppm	ASTM D5185m	>10	2	<1	
Yellow Metalscalar*VisualNONENONENONENONECONTAMINATIONThere is no indication of any contamination in the oil.SiliconppmASTM D5185m>3165WaterWC Method>0.01NEGNEGNEGWaterWC Method>0.11NEMNONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMNORMLNORMLFLUID CONDITIONSodiumppmASTM D5185m>5102The condition of the oil is acceptable for the time in service.SodiumppmASTM D5185m02BariumppmASTM D5185m025MalybdenumppmASTM D5185m145763224239MalybdenumppmASTM D5185m1503263232MalybdenumppmASTM D5185m150322325MalybdenumppmASTM D5185m15032242399PhosphorusppmASTM D5185m15032422399MalybdenumppmASTM D5185m <t< th=""><th></th><th>Vanadium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th><1</th><th><1</th><th></th></t<>		Vanadium	ppm	ASTM D5185m		<1	<1	
Silicon ppm ASTM D5185m >31 6 5 Potassium ppm ASTM D5185m >20 2 <1 Water WC Method >0.1 NEG NEG NEG NEG NEG NONE Bilt Scalar "Visual NONE NONE NONE NONE Sand/Dirt scalar "Visual NONE NONE NONE NONE Appearance scalar "Visual NORM NORML NORML Odor scalar "Visual NOR NORML NORML MORML Scalar "Visual NORML NORML NORML Appearance scalar "Visual NORML NORML Modod scalar "Visual NORML NORML The condition of the oil is acceptable for the time in service. Sodium ppm ASTM D5185m 0 2 Marganese ppm ASTM D5185m 0<		White Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium pp ASTM D5185m >20 2 <1		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Water WC Method >.0.1 NEG NNEG Site scalar Visual NONE NONE NONE Debris scalar Visual NONE NONE NONE Sand/Dirt scalar Visual NONE NONE NONE Appearance scalar Visual NOR NORM NORML Odor scalar Visual NOR NORM NORML Odor scalar Visual NOR NORM NORML Emulsified Water scalar Visual NOR NORM NORML FLUID CONDITION Sodium ppm ASTM D5185 6 16 43 Boron ppm ASTM D5185 0 2 0 Maganese pm ASTM D5185 0 2 0 Magnesium pm ASTM D5185 145 78 374 Magnesium pm ASTM	CONTAMINATION	Silicon	ppm	ASTM D5185m	>31	6	5	
WaterWC Method>0.1NEGNEGSiltscalar'VisualNONENONENONEDebrisscalar'VisualNONENONENONESand/Dirtscalar'VisualNORENONENONEAppearancescalar'VisualNORENORENOREOdorscalar'VisualNORENORENOREOdorscalar'VisualNORENORENOREEmulsifiedWaterscalar'VisualNORENORESodiumppmASTM D5185>51O2BoronppmASTM D5185>51O2MagnaeseeppmASTM D5185020MagnaeseeppmASTM D51851412.02.0MagnesiumppmASTM D518515432.22.39.9PhosphorusppmASTM D518512.903.01.21.02.7SuffurppmASTM D5185164011.9010.27SuffurppmASTM D5185164011.9010.27SuffurppmASTM D5185164011.9010.27SuffurppmASTM D5185164011.9010.27SuffurppmASTM D5185164011.9010.27SuffurppmASTM D	There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	
Debrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*VisualNORMNORMLNORMLFLUID CONDITIONSodiumppmASTM D5185m>5102BoronppmASTM D5185m016433BariumppmASTM D5185m020MolybdenumppmASTM D5185m022ManganeseppmASTM D5185m14578377CalciumppmASTM D5185m14578377PhosphorusppmASTM D5185m145011901027SulfurppmASTM D5185m164011901027SulfurppmASTM D5185m164011901027		Water		WC Method	>0.1	NEG	NEG	
Sand/Dirtscalar'VisualNONENONENONEAppearancescalar'VisualNORMNORMLNORMLNORMLOdorscalar'VisualNORMNORMLNORMLNORMLEmulsified Watescalar'Visual'VisualNORNORMLNORMLFLUID CONDITIONSodiumppmASTM D5185mS02BoronppmASTM D5185mG1643BariumppmASTM D5185mG20MalganeseppmASTM D5185mG22MagnesiumppmASTM D5185m1457837.4PhosphorusppmASTM D5185m1451190102.7ZincppmASTM D5185m1401190102.7SulfurppmASTM D5185m1401190102.7SulfurppmASTM D5185m1401190102.7SulfurppmASTM D5185m1401190102.7SulfurppmASTM D5185m1401190102.7SulfurppmASTM D5185m1401190102.7SulfurppmASTM D5185m1401190102.7Sulfur		Silt	scalar	*Visual	NONE	NONE	NONE	
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORML<		Debris	scalar	*Visual	NONE	NONE	NONE	
Nodorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGFLUID CONDITIONSodiumppmASTM D5185m>5102BoronppmASTM D5185m61643.0BariumppmASTM D5185m020.0MolybdenumppmASTM D5185m02ManganeseppmASTM D5185m02MagnesiumppmASTM D5185m1457837.02CalciumppmASTM D5185m12909968060PhosphorusppmASTM D5185m164119.0102.7SulfurppmASTM D5185m16437423155		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Waterscalar*Visual>0.1NEGNEGFLUID CONDITIONSodiumppmASTM D5185m>5102BoronppmASTM D5185m616433BariumppmASTM D5185m020MolybdenumppmASTM D5185m020ManganeseppmASTM D5185m145783731MagnesiumppmASTM D5185m1457833741PhosphorusppmASTM D5185m164011901027ZincppmASTM D5185m164011901027SulfurppmASTM D5185m164011901027		Appearance	scalar	*Visual	NORML	NORML	NORML	
FLUID CONDITION Sodium ppm ASTM D5185m >51 00 2 Boron ppm ASTM D5185m 6 16 433 Barium ppm ASTM D5185m 0 2 0 Molybdenum ppm ASTM D5185m 0 2 0 Manganese ppm ASTM D5185m 145 78 37.7 Calcium ppm ASTM D5185m 15.0 3224 23.99 Phosphorus ppm ASTM D5185m 1640 11.90 10.27 Sulfur ppm ASTM D5185m 1640 11.90 10.27		Odor	scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 6 16 4.3 Barium ppm ASTM D5185m 0 2 0.0 Molybdenum ppm ASTM D5185m 0 2 5 Manganese ppm ASTM D5185m 145 2 2 Magnesium ppm ASTM D5185m 145 78 3.7 Calcium ppm ASTM D5185m 145 78 3.7 Phosphorus ppm ASTM D5185m 12.0 9.996 8.06 Zinc ppm ASTM D5185m 1640 11.90 1.027 Sulfur ppm ASTM D5185m 1.640 1.190 1.027		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Barium ppm ASTM D5185m 0 2 0 Molybdenum ppm ASTM D5185m 0 2 5 Manganese ppm ASTM D5185m 0 2 2 Magnesium ppm ASTM D5185m 145 78 37 Calcium ppm ASTM D5185m 145 78 37 Phosphorus ppm ASTM D5185m 1290 996 8064 Zinc ppm ASTM D5185m 1640 1190 1027 Sulfur ppm ASTM D5185m 1640 3155	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	0	2	
BariumppmASTM D5185m020MolybdenumppmASTM D5185m025ManganeseppmASTM D5185m14522MagnesiumppmASTM D5185m14578377377CalciumppmASTM D5185m357032242399PhosphorusppmASTM D5185m1290996806ZincppmASTM D5185m164011901027SulfurppmASTM D5185m16403155	The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	6	16	43	
ManganeseppmASTM D5185m22MagnesiumppmASTM D5185m1457837CalciumppmASTM D5185m357032242399PhosphorusppmASTM D5185m1290996806ZincppmASTM D5185m164011901027SulfurppmASTM D5185m164037423155		Barium	ppm	ASTM D5185m	0	2	0	
Magnesium ppm ASTM D5185m 145 78 37 Calcium ppm ASTM D5185m 3570 3224 2399 Phosphorus ppm ASTM D5185m 1290 996 806 Zinc ppm ASTM D5185m 1640 1190 1027 Sulfur ppm ASTM D5185m 1640 3742 3155		Molybdenum	ppm	ASTM D5185m	0	2	5	
Calcium ppm ASTM D5185m 3570 3224 2399 Phosphorus ppm ASTM D5185m 1290 996 806 Zinc ppm ASTM D5185m 1640 1190 1027 Sulfur ppm ASTM D5185m 1640 3742 3155		Manganese	ppm	ASTM D5185m		2	2	
Phosphorus ppm ASTM D5185m 1290 996 806 Zinc ppm ASTM D5185m 1640 1190 1027 Sulfur ppm ASTM D5185m C 3742 3155		Magnesium	ppm	ASTM D5185m	145	78	37	
Zinc ppm ASTM D5185m 1640 1190 1027 Sulfur ppm ASTM D5185m C 3742 3155		Calcium	ppm	ASTM D5185m	3570	3224	2399	
Sulfur ppm ASTM D5185m 3742 3155		Phosphorus	ppm	ASTM D5185m	1290	996	806	
		Zinc	ppm	ASTM D5185m	1640	1190	1027	
Visc @ 40°C cSt ASTM D445 57.0 43.9 41.8		Sulfur	ppm	ASTM D5185m		3742	3155	
		Visc @ 40°C	cSt	ASTM D445	57.0	43.9	41.8	

Submitted By: STORE 3 - NORTON - BRIAN YOUTZY







Submitted By: STORE 3 - NORTON - BRIAN YOUTZY Page 2 of 2

Apr24/24