

## Machine Id JOHN DEERE 624 P 1DW624PAVPLX19408 Component **Rear Axle** JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

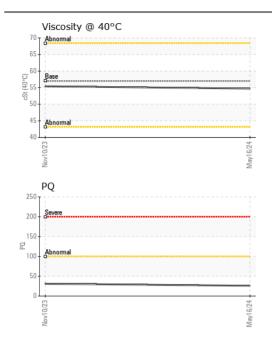
Sample Authenext service interval to monitor.     Sample Date     Client Info     JR027766     JR0191201        Sample Date     Client Info     16 May 2024     10 Nov 2023        Machine Age     hrs     Client Info     2299     1134        Oil Age     hrs     Client Info     2299     1134        Oil Changed     Client Info     16 May 2024      16 May 2024        Oil Changed     Client Info     16 May 2024      1134        Oil Changed     Client Info     Changed     Not Changed     Not Changed     Not Changed        NORMAL     NORMAL     NORMAL     NORMAL     NORMAL     NORMAL        Not Changed     Client Info     PO     ASTM D51565     11     1        Normal     ppm     ASTM D51565     11     1         Normal     ppm     ASTM D51565     11     1         Normal     ppm     ASTM D5155	JURN DEERE RI-GARD RID/IRANS ( GAL	-)						
Sample Date     Client Info     16 May 202     10 Nov 203        Machine Age     Ins     Client Info     2299     1134        OII Age     Ins     Client Info     2299     1134        OII Age     Ins     Client Info     Ins     Nor Changed        OII Changed     Ins     Client Info     Changed     Changed     Nor Changed     Nor Changed     Nor Changed	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date     Client Info     Fit May 224     Info     Info <th< td=""><td rowspan="8">Resample at the next service interval to monitor.</td><td>Sample Number</td><td></td><td>Client Info</td><td></td><th>JR0207786</th><td>JR0191201</td><td></td></th<>	Resample at the next service interval to monitor.	Sample Number		Client Info		JR0207786	JR0191201	
Oli Age     hrs     Client Info     C     299     1134        Filter Age     hrs     Client Info     Ites     30.0        Oil Changed     Oil Changed     Client Info     Ites     30.0        Filter Changed     Oil Changed     Client Info     Ites     Changed     Changed        NORMAL     NORMAL     NORMAL     NORMAL         Metal levels are typical for a new component breaking in.     Inon     pm     ASTM 05185     -11     1         Moted     pm     ASTM 05185     -11     1          Moted     pm     ASTM 05185     -11     1          Moted     pm     ASTM 05185     -11     1     -1         Mickel     pm     ASTM 05185     -11     1     -1         Trainuing     pm     ASTM 05185     -101     1		Sample Date		Client Info		16 May 2024	10 Nov 2023	
Filter Age Ins Client Info Inf 900 Image   Oil Changed Oil Changed Client Info Changed Not Changed Image   Filter Changed Sample Status Normal Normal Image   Normal PQ ASTM D818 Ze 31 Image   Normal PQ ASTM D818 Join 10 31 Image   Normal PQ ASTM D818 Join 10 31 Image   Normal PP ASTM D8188 Join 1 0 Image   Normal PP ASTM D8188 Join 1 0 Image   Normal PP ASTM D8188 Join 1 1 Image   Normal PP ASTM D8188 Join 1 1 Image   Adminum PP ASTM D8188 Join 1 1 Image   Adminum PP ASTM D8188 Join 2 1 Image   Adminum PP ASTM D8188 Join 2 1 Image   Adminum PP ASTM D8188 Join 2 1 Image   Adpead Sand Dast Visual <		Machine Age	hrs	Client Info		2299	1134	
Oil Changed     Client Info     Changed     Not Changed     Parage       Filter Changed     Client Info     Changed     Changed     Image     Image <td>Oil Age</td> <td>hrs</td> <td>Client Info</td> <td></td> <th>2299</th> <td>1134</td> <td></td>		Oil Age	hrs	Client Info		2299	1134	
Filter Changed Image Clean Ind Changed Changed Changed   Sample Status NORMA NORMA NORMA NORMA NORMA NORMA   VEAR PQ STM Differ STM S		Filter Age	hrs	Client Info		1165	930	
Sample Status     NORMAL     Normal <tho< td=""><td>Oil Changed</td><td></td><td>Client Info</td><td></td><th>Changed</th><td>Not Changd</td><td></td></tho<>		Oil Changed		Client Info		Changed	Not Changd	
PQ     ASTM D818/     26     31        Metal levels are typical for a new component breaking in.     Iron     ppm     ASTM D6186     750     123     95        Nickel     ppm     ASTM D6186     >11     1     <1		Filter Changed		Client Info		Changed	Changed	
Iron     ppm     ASTM D515m     >750     123     951        Metal levels are typical for a new component breaking in.     Chromium     ppm     ASTM D515m     10     1     <10		Sample Status				NORMAL	NORMAL	
Normal nevels are typical ion a new component breaking in:     Chromium     ppm     ASTM 2585s     >11     1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1     <1   <1     <1     <1	WEAR	PQ		ASTM D8184		26	31	
Chromium NickelppmASTM D518m-101<1<1<-1NickelppmASTM D518m-0	Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>750	123	95	
NickelppmASTM D5165m>1010TitaniumppmASTM D5165m<		Chromium	ppm	ASTM D5185m	>11	1	<1	
Silver     ppm     ASTM D5185m     C     1     0.0        Aluminum     ppm     ASTM D5185m     >21     1     <1		Nickel	ppm	ASTM D5185m	>10	1	0	
Aluminum     ppm     ASTM D585m     >21     1     <10     <10       Lead     ppm     ASTM D585m     >49     500     450         Copper     ppm     ASTM D585m     >10     95     62.0        Tin     ppm     ASTM D585m     >10     95     6.1        Variadium     ppm     ASTM D585m     >10     6.1         White Metal     scalar     'Visual     NONE     NONE     NONE     NONE        Solicon     ppm     ASTM D585m     >31     6     10.0        There is no indication of any contamination in the oil.     Solicon     pdf     ASTM D585m     >31     6     10.0        Detris     scalar     Visual     NONE     NONE     NONE     NONE     NONE        CONDITION     Scalar     Visual     NONE     NORM     NORM     NORM     NORM     NORM        Thecondit		Titanium	ppm	ASTM D5185m		<1	0	
Lead     ppm     ASTM D5185m     >49     50     45        Copper     ppm     ASTM D5185m     >101     95     62        Tin     ppm     ASTM D5185m     >10     2     1        Vanadium     ppm     ASTM D5185m     >10     2     1        Vanadium     ppm     ASTM D5185m     NONE     NONE     NONE     NONE     NONE        Vanadium     pci     ASTM D5185m     >31     6     10        Vanadium     pci     ASTM D5185m     >20     3     2        Stilicon     ppm     ASTM D5185m     >20     3     2        There is no indication of any contamination in the oil.     Potassium     ppm     ASTM D5185m     >20     3     2        Stilicon     pcins     scalar     Visual     NONE     NONE     NONE     NONE        Stilicon     scalar     Visual     NORE     NON		Silver	ppm	ASTM D5185m		1	0	
Copper TinpmASTM D5185m>109562TinpmASTM D5185m>1021VanadiumpmASTM D5185mWhite MetalscalarVisualNONENONENONEVelow MetalscalarVisualNONENONENONENONEPolassiumpmASTM D5185m-31610PolassiumpmASTM D5185m-31610PolassiumpmASTM D5185m-31NONENONEPolassiumpmASTM D5185m-31NEGSiliconpmASTM D5185mNEGPolassiumppmASTM D5185mNONENONENONEDebrisscalarVisualNONENONENONENONENONEAppearancescalarVisualNORMNORMLNORMLNORMLNORMLNORMLMolyDednumppmASTM D5185m-51AAMolyDednumppmASTM D5185m017MolyDednumppmASTM D5185m0117MolyDednumppmASTM D5185m0117MolyDednumppmASTM D5185m1331 </td <td>Aluminum</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;21</td> <th>1</th> <td>&lt;1</td> <td></td>		Aluminum	ppm	ASTM D5185m	>21	1	<1	
Tin     ppm     ASTM D5185m     >10     2     1		Lead	ppm	ASTM D5185m	>49	50	45	
VanadiumppmASTM D5185<		Copper	ppm	ASTM D5185m	>101	95	62	
White Metal   scalar   'Visual   NONE   NON		Tin	ppm	ASTM D5185m	>10	2	1	
Yellow Metalscalar*VisualNONENONENONECONTAMINATIONSiliconppmASTM D5/85m>30610PotassiumppmASTM D5/85m>2032WaterWC Methol>.01NNEGNNEGNEGSilitscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNONEOdorscalar*VisualNORMNORMLNORMLChornescalar*VisualNORMLNORMLNORMLMultified Waterscalar*VisualNORMLNORMLNORMLFLUID CONDITIONScalar*VisualNORMLBoronppmASTM D5/85m004MarganeseppmASTM D5/85m0117MarganeseppmASTM D5/85m357034223506MarganeseppmASTM D5/85m357034223506MarganeseppmASTM D5/85m357034223506MarganeseppmASTM D5/85m16401100 <td< td=""><td>Vanadium</td><td>ppm</td><td>ASTM D5185m</td><td></td><th>&lt;1</th><td>&lt;1</td><td></td></td<>		Vanadium	ppm	ASTM D5185m		<1	<1	
Silicon   ppm   ASTM D5185m   >31   6   10      Potassium   ppm   ASTM D5185m   >20   3   2      Water   WC Method   >0.1   NEG   NEG   NEG      Site   scalar   Visual   NONE   NONE   NONE   NONE      Debris   scalar   Visual   NONE   NONE   NONE   NONE      Appearance   scalar   Visual   NORM   NORML   NORML   NORML      FLUID CONDITION   Sodium   ppm   ASTM D5185m   >51   4   6      Roon   ppm   ASTM D5185m   >51   4   6      FLUID CONDITION   Sodium   ppm   ASTM D5185m   6   2   4      Molybdenum   ppm   ASTM D5185m   0   1   7      Molybdenum   ppm   ASTM D5185m   0   1   7      Maganese   ppm   ASTM D5185m   14   3   3		White Metal	scalar	*Visual	NONE	NONE	NONE	
PotassiumppmASTM D5185m>2032WaterVC Method>0.1NEGNEGSiltscalarVisualNONENONENONEDebrisscalarVisualNONENONENONESand/DirtscalarVisualNONENONENONEAppearancescalarVisualNORHNORHLNORHLOdorscalarVisualNORHNORHLNORHLEmulsified WaterscalarVisualNORHNORHLNe condition of the oil is acceptable for the time in service.SodiumppmASTM D5185m-5-14BariumppmASTM D5185m017<		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium   pp   ASTM D5185m   >20   3   2      Water   WC Method   -0.1   NEG   NEG      Silt   scalar   *Visual   NONE   NONE   NONE      Debris   scalar   *Visual   NONE   NONE   NONE      Sand/Dirt   scalar   *Visual   NONE   NONE   NONE      Appearance   scalar   *Visual   NORM   NORML   NORML      Odor   scalar   *Visual   NOR   NORML   NORML      Emulsified Water   scalar   *Visual   NOR   NORML   NORML      Ne condition of the oil is acceptable for the time in service.   Sodium   ppm   ASTM D5185m   -51   4      Manganese   ppm   ASTM D5185m   0   1   7      Mangenesium   ppm   ASTM D5185m   145   93   113      Mangenesium   ppm   ASTM D5185m   150   1640   1187	CONTAMINATION	Silicon	ppm	ASTM D5185m	>31	6	10	
WaterWC MethodNCNEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMNORMLNORMLOdorscalar*VisualNORMNORMNORMLNORMLEmulsified Waterscalar*VisualNORMNORMNORMLBoronppmASTM D518m>5146BariumppmASTM D518m0147<	There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	2	
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORNORMNORMLNORMLOdorscalar*VisualNORNORMNORMLNORMLEmulsifiedWaterscalar*VisualNORNORMLNORMLFLUID CONDITIONSodiumppmASTM D5185n>5146BoronppmASTM D5185n5046BariumppmASTM D5185n01101701MaganeseppmASTM D5185n1459311311MagnesiumppmASTM D5185n12911001PhosphorusppmASTM D5185n164011871332		Water		WC Method	>0.1	NEG	NEG	
Sand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMNORMNORMLNORMLOdorscalar*VisualNORMNORMNORMLNORMLEmulsified Watescalar*VisualNORMNORMNORMLNORMLFLUID CONDITIONSodiumppmASTM D5185m>5146BoronppmASTM D5185m0044.0BariumppmASTM D5185m0044.0MolybdenumppmASTM D5185m011.0MagnesiumppmASTM D5185m14593.011.31PhosphorusppmASTM D5185m35.00342235060ThosphorusppmASTM D5185m12.0011.000PhosphorusppmASTM D5185m12.0011.000ThosphorusppmASTM D5185m12.0011.000PhosphorusppmASTM D5185m16.0011.000ThosphorusppmASTM D5185m16.0011.000		Silt	scalar	*Visual	NONE	NONE	NONE	
Appearance Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORML<		Debris	scalar	*Visual	NONE	NONE	NONE	
Odorscalar*VisualNORMLNORMLNORMLIEmulsified Waterscalar*Visual>0.1NEGNEGNEGNEGNEGNEGNEGFLUID CONDITIONppmASTM D5185m>5146BoronppmASTM D5185m6244BariumppmASTM D5185m0044MolybdenumppmASTM D5185m01771ManganeseppmASTM D5185m1459331131CalciumppmASTM D5185m357034223506PhosphorusppmASTM D5185m164011871332		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Waterscalar*Visual>0.1NEGNEGFLUID CONDITIONSodiumppmASTM D5185m>5146BoronppmASTM D5185m624BariumppmASTM D5185m0044MolybdenumppmASTM D5185m0117<		Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium   ppm   ASTM D5185m   >51   4   6      Boron   ppm   ASTM D5185m   6   2   4      Barium   ppm   ASTM D5185m   0   0   4      Molybdenum   ppm   ASTM D5185m   0   1   7      Manganese   ppm   ASTM D5185m   145   93   1133      Calcium   ppm   ASTM D5185m   3570   3422   3506      Phosphorus   ppm   ASTM D5185m   1290   1100      Zinc   ppm   ASTM D5185m   1640   1187   1332		Odor	scalar	*Visual	NORML	NORML	NORML	
Boron   ppm   ASTM D5185m   6   2   4      Barium   ppm   ASTM D5185m   0   0   4      Molybdenum   ppm   ASTM D5185m   0   0   4      Manganese   ppm   ASTM D5185m   145   33   33      Magnesium   ppm   ASTM D5185m   145   93   113      Calcium   ppm   ASTM D5185m   3570   3422   3506      Phosphorus   ppm   ASTM D5185m   1290   11000      Zinc   ppm   ASTM D5185m   1640   1187   1332		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Boron   ppm   ASTM D5185m   6   2   4      Barium   ppm   ASTM D5185m   0   0   4      Molybdenum   ppm   ASTM D5185m   0   0   4      Manganese   ppm   ASTM D5185m   145   33   33      Magnesium   ppm   ASTM D5185m   145   93   1133      Calcium   ppm   ASTM D5185m   3570   3422   3506      Phosphorus   ppm   ASTM D5185m   1290   11000      Zinc   ppm   ASTM D5185m   1640   1187   1332	LUID CONDITION	Sodium	mag	ASTM D5185m	>51	4	6	
Barium   ppm   ASTM D5185m   0   0   4      Molybdenum   ppm   ASTM D5185m   0   1   7      Manganese   ppm   ASTM D5185m   145   33   33      Magnesium   ppm   ASTM D5185m   145   93   113      Calcium   ppm   ASTM D5185m   3570   3422   3506      Phosphorus   ppm   ASTM D5185m   1290   1100      Zinc   ppm   ASTM D5185m   1640   1187   1332	The condition of the oil is acceptable for the time in service.			ASTM D5185m	6			
Molybdenum   ppm   ASTM D5185m   0   1   7      Manganese   ppm   ASTM D5185m   1   3      Magnesium   ppm   ASTM D5185m   145   93   113      Calcium   ppm   ASTM D5185m   3570   3422   3506      Phosphorus   ppm   ASTM D5185m   1290   1055   1100      Zinc   ppm   ASTM D5185m   1640   1187   1332								
Manganese   ppm   ASTM D5185m   S   3      Magnesium   ppm   ASTM D5185m   145   93   113      Calcium   ppm   ASTM D5185m   3570   3422   3506      Phosphorus   ppm   ASTM D5185m   1290   1100      Zinc   ppm   ASTM D5185m   1640   1187   1332							7	
Magnesium   ppm   ASTM D5185m   145   93   113      Calcium   ppm   ASTM D5185m   3570   3422   3506      Phosphorus   ppm   ASTM D5185m   1290   1055   1100      Zinc   ppm   ASTM D5185m   1640   1187   1332		-						
Calcium   ppm   ASTM D5185m   3570   3422   3506      Phosphorus   ppm   ASTM D5185m   1290   1055   1100      Zinc   ppm   ASTM D5185m   1640   1187   1332		-			145			
Phosphorus     ppm     ASTM D5185m     1290     1055     1100        Zinc     ppm     ASTM D5185m     1640     1187     1332		-						
Zinc ppm ASTM D5185m 1640 1187 1332								
				ASTM D5185m	1640	1187	1332	
		Sulfur		ASTM D5185m			3989	

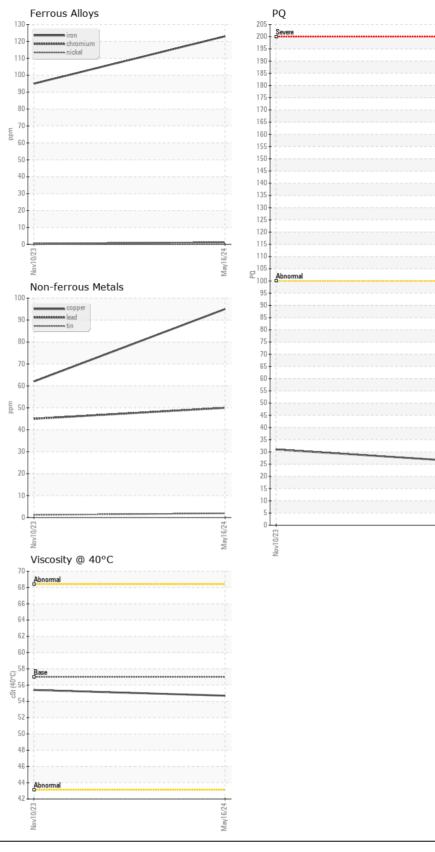
Visc @ 40°C cSt

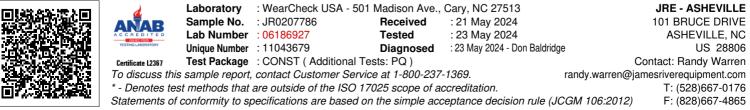
ASTM D445 57.0 Contact/Location: Randy Warren - VANASH

55.4

54.7







Contact/Location: Randy Warren - VANASH Page 2 of 2

May16/24