

## Machine Id JOHN DEERE 544 P 1DW544PALNLZ16164 Component Brake Fluid

{not provided} (1 GAL)

RECOMMENDATION	
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Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## **CONTAMINATION**

There is no indication of any contamination in the oil.

## **FLUID CONDITION**

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

TestUOMMethodLimit/MoCurrentHistory1History2Sample NumberClient Info08 May 2024Machine AgehrsClient Info2186Oil AgehrsClient Info2186Filter AgehrsClient Info0Filter ChangedClient InfoImit AmChangedGli ChangedClient InfoImit AmSample StatusClient InfoN/APQASTM D6185m>50145NickelppmASTM D5185m>50-1NickelppmASTM D5185m>50-1SilverppmASTM D5185m>513SilverppmASTM D5185m>1010AuminumppmASTM D5185m>1010VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>400308VanadiumppmASTM D5185m>20<1VanadiumppmASTM D5185m>20<1VanadiumppmASTM D5185m>20<1VanadiumppmASTM D5185m>20<1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Sample DateClient Info08 May 2024Machine AgehrsClient Info2186Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusNORMALPQASTM D5185>50<1NickelppmASTM D5185>5<1NickelppmASTM D5185>5<1NickelppmASTM D5185>5<1SilverppmASTM D5185>5<1AluminumppmASTM D5185>1010CopperppmASTM D5185>1010VanadiumppmASTM D5185>0SiliconppmASTM D5185>0SiliconppmASTM D5185>20<1SiliconppmASTM D5185>20<1SiliconppmASTM D5185>20<1SiliconppmASTM D5185>20<1Silicon <td< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></td<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info2186Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusNORMALPQASTM D5185m>50145PQASTM D5185m>50<1NickelppmASTM D5185m>5<1NickelppmASTM D5185m<<1AluminumppmASTM D5185m>5<1AluminumppmASTM D5185m>100CopperppmASTM D5185m>1010VanadiumppmASTM D5185m>50VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100SiliconppmASTM D5185m>20<1SiliconppmASTM D5185m>20Silitscalar*VisualNONENONESilitscalar*VisualNONENONESilitscalar*VisualNONESodumppmASTM D5185m>0.2NEGSilitscalar	Sample Number		Client Info		JR0213887		
Oil Age         hrs         Client Info         2186             Filter Age         hrs         Client Info         0             Oil Changed         Client Info         N/A             Filter Changed         Q         Client Info         N/A             Sample Status         NORMAL              PQ         ASTM D5185m         >350         145             Iron         ppm         ASTM D5185m         >5         <1             Nickel         ppm         ASTM D5185m         >5         <1             Silver         ppm         ASTM D5185m         >5         <1             Silver         ppm         ASTM D5185m         >10         10             Aluminum         ppm         ASTM D5185m         >50         0             Yanadium         ppm         ASTM D5185m         >400         308             Yanadium         ppm         ASTM D	Sample Date		Client Info		08 May 2024		
Filter Age         hrs         Client Info         0             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         NORMAL             PQ         ASTM D5185m         >350         145            Iron         ppm         ASTM D5185m         >5         <1            Nickel         ppm         ASTM D5185m         >5         <1            Nickel         ppm         ASTM D5185m         >5         <1            Silver         ppm         ASTM D5185m         >6             Aluminum         ppm         ASTM D5185m         >10         10             Copper         ppm         ASTM D5185m         >10         10             Vanadum         ppm         ASTM D5185m         >10         1             Vallouminum         ppm         ASTM D5185m         >400         308	Machine Age	hrs	Client Info		2186		
Oil ChangedClient InfoChangedFilter ChangedClient InfoN/ASample StatusNORMALPQASTM D818453IronppmASTM D6185>.50145ChromiumppmASTM D5185>.5<1NickelppmASTM D5185NickelppmASTM D5185NickelppmASTM D5185NickelppmASTM D5185AluminumppmASTM D51850AluminumppmASTM D51850AgnadiumppmASTM D51850VanadiumppmASTM D51850Yellow Metalscalar'VisualNONEYellow Metalscalar'VisualNONESiliconppmASTM D5185.20Yellow Metalscalar'VisualNONEYellow Metalscalar'VisualNONESiliconppmASTM D5185.20Potassiumppm<	Oil Age	hrs	Client Info		2186		
Filter Changed Sample Status         Client Info         N/A             PQ         ASTM D8184         53             PQ         ASTM D8185         >350         145             Iron         ppm         ASTM D8185         >350         145             Chromium         ppm         ASTM D5185         >5         <1             Nickel         ppm         ASTM D5185         >5         <1             Aluminum         pm         ASTM D5185         >8         6             Aluminum         pm         ASTM D5185         >8         6             Aluminum         pm         ASTM D5185         >8         6             Agadium         pm         ASTM D5185         >8         6             Vanadium         pm         ASTM D5185         >8         0             Vanadium         pm         ASTM D5185         >10              Vanadiu	Filter Age	hrs	Client Info		0		
Sample Status         NORMAL             PQ         ASTM D8184         53             Iron         pm         ASTM D5185         >350         145             Nickel         pm         ASTM D5185         >5         <1             Nickel         pm         ASTM D5185         >5         <1             Nickel         ppm         ASTM D5185         >5         <1             Silver         ppm         ASTM D5185         >5         <1             Aluminum         pm         ASTM D5185         >8         6             Lead         ppm         ASTM D5185         >10         10             Vanadium         pm         ASTM D5185         >10              Vanadium         pm         ASTM D5185         >10              Vanadium         pm         ASTM D5185         >20         <1             Vanadium         pm <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th></th> <th></th>	Oil Changed		Client Info		Changed		
PQ         ASTM D8184         53             Iron         ppm         ASTM D5185m         >350         145             Chromium         ppm         ASTM D5185m         >5         <1             Nickel         ppm         ASTM D5185m         >5         <1             Nickel         ppm         ASTM D5185m         >5         <1             Silver         ppm         ASTM D5185m         >5         <1             Aluminum         ppm         ASTM D5185m         >5         0             Aluminum         ppm         ASTM D5185m         >10         10             Astm D5185m         >10         10              Yanadium         ppm         ASTM D5185m         >5         0             Yanadium         ppm         ASTM D5185m         >400         308             Yanadium         ppm         ASTM D5185m         >400         308 <th>Filter Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th></th> <th></th>	Filter Changed		Client Info		N/A		
Iron         ppm         ASTM D5185m         >350         145            Chromium         ppm         ASTM D5185m         >5         <1            Nickel         ppm         ASTM D5185m         >5         <1            Titanium         ppm         ASTM D5185m         <1             Aluminum         ppm         ASTM D5185m         <1             Aluminum         ppm         ASTM D5185m         >10         10             Aluminum         ppm         ASTM D5185m         >10         10             Aluminum         ppm         ASTM D5185m         >10         10             Auminum         ppm         ASTM D5185m         >50         0             Vanadium         ppm         ASTM D5185m         >50         0             Vanadium         ppm         ASTM D5185m         >400         308             Vanadium         ppm         ASTM D5185m         >20         <1	Sample Status				NORMAL		
Iron         ppm         ASTM D5185m         >350         145            Chromium         ppm         ASTM D5185m         >5         <1            Nickel         ppm         ASTM D5185m         >5         <1            Titanium         ppm         ASTM D5185m         <1             Aluminum         ppm         ASTM D5185m         <1             Aluminum         ppm         ASTM D5185m         >10         10             Aluminum         ppm         ASTM D5185m         >10         10             Aluminum         ppm         ASTM D5185m         >10         10             Auminum         ppm         ASTM D5185m         >50         0             Vanadium         ppm         ASTM D5185m         >50         0             Vanadium         ppm         ASTM D5185m         >400         308             Vanadium         ppm         ASTM D5185m         >20         <1	<b>DO</b>						
Chromium         ppm         ASTM D5185m         >5         <1							
Nickel         ppm         ASTM D5185m         >         <1	-						
Titanium         ppm         ASTM D5185m         <1		ppm					
Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >8         6             Lead         ppm         ASTM D5185m         >10         10             Copper         ppm         ASTM D5185m         >100         3             Tin         ppm         ASTM D5185m         >5         0             Vanadium         ppm         ASTM D5185m         >5         0             Vanadium         ppm         ASTM D5185m         >5         0             Vanadium         ppm         ASTM D5185m         >400         308             Vanadium         ppm         ASTM D5185m         >400         308             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         <1             Silit         scalar         Visual         NONE </th <th></th> <th>ppm</th> <th></th> <th>&gt;5</th> <th></th> <th></th> <th></th>		ppm		>5			
Aluminum         ppm         ASTM D5185m         >8         6            Lead         ppm         ASTM D5185m         >10         10            Copper         ppm         ASTM D5185m         >150         3            Tin         ppm         ASTM D5185m         >5         0            Vanadium         ppm         ASTM D5185m         >5         0            White Metal         scalar         *Visual         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE            Silicon         ppm         ASTM D5185m         >400         308             Potassium         ppm         ASTM D5185m         >400         308             Silicon         ppm         ASTM D5185m         >20         <1             Water         WC Method         >0.2         NEG             Silit         scalar         *Visual         NONE         NONE            Sand/Dirit         scalar         *Visual <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Lead         ppm         ASTM D5185m         >10         10             Copper         ppm         ASTM D5185m         >150         3             Tin         ppm         ASTM D5185m         >5         0             Vanadium         ppm         ASTM D5185m         >5         0             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >400         308             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         <1             Water         WC Method         >0.2         NEG             Sad/Dirt         scalar         *Visual         NONE             Appearance         scalar         *Visual         NORML <th></th> <th>ppm</th> <th></th> <th></th> <th>-</th> <th></th> <th></th>		ppm			-		
Copper         ppm         ASTM D5185m         >150         3            Tin         ppm         ASTM D5185m         >5         0             Vanadium         ppm         ASTM D5185m         >5         0             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >400         308             Vater         WC Method         >0.2         NEG             Silt         scalar         *Visual         NONE         NONE             Sad/Dirt         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NOR         NOREL             Appearance         scalar         *Visual         NORML         NORML             Sodium         ppm         ASTM D5185m         10 <th></th> <th>ppm</th> <th></th> <th></th> <th></th> <th></th> <th></th>		ppm					
Tin         ppm         ASTM D5185m         >5         0            Vanadium         ppm         ASTM D5185m         0             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >400         308             Potassium         ppm         ASTM D5185m         >20         <1             Water         WC Method         >0.2         NEG              Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORM         NORML             Odor         scalar         *Visual         NOR         NORML             Sodium         ppm         ASTM D5185m	Lead	ppm	ASTM D5185m	>10	10		
VanadiumppmASTM D5185m0White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>400308PotassiumppmASTM D5185m>20<1WaterWC Method>0.2NEGSiliscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMLMORMLAppearancescalar*VisualNORMLGodorscalar*VisualNORMLSodiumppmASTM D5185m10BariumppmASTM D5185m5MaganeseppmASTM D5185m4ManganeseppmASTM D5185m44PhosphorusppmASTM D5185m11452PhosphorusppmASTM D5185m5MagnesiumppmASTM D5185m4417PhosphorusppmASTM D5185m5SolifurppmASTM D5185m2826MagnesiumppmASTM D5	Copper	ppm	ASTM D5185m	>150	3		
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>400308PotassiumppmASTM D5185m>20<1WaterWC Method>0.2NEGSilitscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m10BoronppmASTM D5185m104BariumppmASTM D5185m355MolybdenumppmASTM D5185m4MaganeseppmASTM D5185m1452PhosphorusppmASTM D5185m1452ZincppmASTM D5185m326SulfurppmASTM D5185m826SoliurppmASTM D5185mSoliurppmASTM D5185mSoliurppmASTM D5185mMagnesiumppmASTM D5185m <th>Tin</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;5</th> <th>0</th> <th></th> <th></th>	Tin	ppm	ASTM D5185m	>5	0		
Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>400308PotassiumppmASTM D5185m>20<1WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLBoronppmASTM D5185m10BariumppmASTM D5185m5MolybdenumppmASTM D5185m4MaganeseppmASTM D5185m1452PhosphorusppmASTM D5185m1452ZincppmASTM D5185m826SulfurppmASTM D5185m826	Vanadium	ppm	ASTM D5185m		0		
Silicon         ppm         ASTM D5185m         >400         308             Potassium         ppm         ASTM D5185m         >20         <1             Water         WC Method         >0.2         NEG             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORL         NORML             Sodium         ppm         ASTM D5185m         10             Boron         ppm         ASTM D5185m         104             Molybdenum         ppm         ASTM D5185m         5             Manganese         ppm         ASTM D5185m         417	White Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>20<1	Yellow Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>20<1	Silicon	nnm	ASTM D5185m	<u>\</u> 400	308		
WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m10BoronppmASTM D5185m104BariumppmASTM D5185m5MolybdenumppmASTM D5185m4MaganeseppmASTM D5185m4PhosphorusppmASTM D5185m1452ZincppmASTM D5185m326SulfurppmASTM D5185m326SulfurppmASTM D5185m326SulfurppmASTM D5185m326SulfurppmASTM D5185m326SulfurppmASTM D5185m3272SulfurppmASTM D5185m326Su							
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLCdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m10BoronppmASTM D5185m5BariumppmASTM D5185m5MalganeseppmASTM D5185m4MagnesiumppmASTM D5185m1452PhosphorusppmASTM D5185m826ZincppmASTM D5185m8272		ppiii					
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNORNONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLDdorscalar*VisualNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m10BoronppmASTM D5185m104BariumppmASTM D5185m5MolybdenumppmASTM D5185m4MagnesiumppmASTM D5185m4MagnesiumppmASTM D5185m1452PhosphorusppmASTM D5185mI326ZincppmASTM D5185m826SulfurppmASTM D5185m2872		scalar			-		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m10BoronppmASTM D5185m104BariumppmASTM D5185m5MolybdenumppmASTM D5185m4MagnesiumppmASTM D5185m4MagnesiumppmASTM D5185m1452PhosphorusppmASTM D5185m1452ZincppmASTM D5185m5SulfurppmASTM D5185m2872SulfurppmASTM D5185m62872					-		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m10BoronppmASTM D5185m104BariumppmASTM D5185m5MolybdenumppmASTM D5185m4MaganeseppmASTM D5185m44MagnesiumppmASTM D5185m14452PhosphorusppmASTM D5185m1452ZincppmASTM D5185m2826SulfurppmASTM D5185m62872							
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m10BoronppmASTM D5185m104BariumppmASTM D5185m5MolybdenumppmASTM D5185m4ManganeseppmASTM D5185m4MagnesiumppmASTM D5185m44PhosphorusppmASTM D5185m1452ZincppmASTM D5185m826SulfurppmASTM D5185m62872							
Emulsified Water         scalar         *Visual         >0.2         NEG             Sodium         ppm         ASTM D5185m         10              Boron         ppm         ASTM D5185m         104              Barium         ppm         ASTM D5185m         5              Molybdenum         ppm         ASTM D5185m         355              Manganese         ppm         ASTM D5185m         4              Magnesium         ppm         ASTM D5185m         4              Phosphorus         ppm         ASTM D5185m         1452              Phosphorus         ppm         ASTM D5185m         736              Zinc         ppm         ASTM D5185m         826              Sulfur         ppm         ASTM D5185m         2872							
Sodium         ppm         ASTM D5185m         10            Boron         ppm         ASTM D5185m         104             Barium         ppm         ASTM D5185m         5             Barium         ppm         ASTM D5185m         5             Molybdenum         ppm         ASTM D5185m         4             Manganese         ppm         ASTM D5185m         4             Magnesium         ppm         ASTM D5185m         4             Calcium         ppm         ASTM D5185m         1452             Phosphorus         ppm         ASTM D5185m         826             Zinc         ppm         ASTM D5185m         8272					-		
Boron         ppm         ASTM D5185m         104             Barium         ppm         ASTM D5185m         5             Molybdenum         ppm         ASTM D5185m         355             Manganese         ppm         ASTM D5185m         4             Magnesium         ppm         ASTM D5185m         417             Calcium         ppm         ASTM D5185m         1452             Phosphorus         ppm         ASTM D5185m         326             Zinc         ppm         ASTM D5185m         826             Sulfur         ppm         ASTM D5185m         8272		Scalal	VISUAI	>0.2			
Barium         ppm         ASTM D5185m         5            Molybdenum         ppm         ASTM D5185m         355             Manganese         ppm         ASTM D5185m         4             Magnesium         ppm         ASTM D5185m         4             Calcium         ppm         ASTM D5185m         1452             Phosphorus         ppm         ASTM D5185m         736             Zinc         ppm         ASTM D5185m         826             Sulfur         ppm         ASTM D5185m         2872	Sodium	ppm	ASTM D5185m		10		
Molybdenum         ppm         ASTM D5185m         355             Manganese         ppm         ASTM D5185m         4             Magnesium         ppm         ASTM D5185m         4             Magnesium         ppm         ASTM D5185m         417             Calcium         ppm         ASTM D5185m         1452             Phosphorus         ppm         ASTM D5185m         736             Zinc         ppm         ASTM D5185m         826             Sulfur         ppm         ASTM D5185m         2872	Boron	ppm	ASTM D5185m		104		
Manganese         ppm         ASTM D5185m         4             Magnesium         ppm         ASTM D5185m         417             Calcium         ppm         ASTM D5185m         1452             Phosphorus         ppm         ASTM D5185m         736             Zinc         ppm         ASTM D5185m         826             Sulfur         ppm         ASTM D5185m         2872	Barium	ppm	ASTM D5185m		5		
Magnesium         ppm         ASTM D5185m         417             Calcium         ppm         ASTM D5185m         1452             Phosphorus         ppm         ASTM D5185m         736             Zinc         ppm         ASTM D5185m         826             Sulfur         ppm         ASTM D5185m         2872	Molybdenum	ppm	ASTM D5185m		355		
Calcium         ppm         ASTM D5185m         1452             Phosphorus         ppm         ASTM D5185m         736             Zinc         ppm         ASTM D5185m         826             Sulfur         ppm         ASTM D5185m         2872	Manganese	ppm	ASTM D5185m		4		
Phosphorus         ppm         ASTM D5185m         736             Zinc         ppm         ASTM D5185m         826             Sulfur         ppm         ASTM D5185m         2872	Magnesium	ppm	ASTM D5185m		417		
Zinc         ppm         ASTM D5185m         826             Sulfur         ppm         ASTM D5185m         2872	Calcium	ppm	ASTM D5185m		1452		
Zinc         ppm         ASTM D5185m         826             Sulfur         ppm         ASTM D5185m         2872	Phosphorus	ppm	ASTM D5185m		736		
Sulfur         ppm         ASTM D5185m         2872	Zinc		ASTM D5185m		826		
	Sulfur		ASTM D5185m		2872		
	Visc @ 40°C	cSt	ASTM D445		42.0		





