

## Machine Id JOHN DEERE 460P 1DW460PAAPFB06454 Component Rear Differential Fluid JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

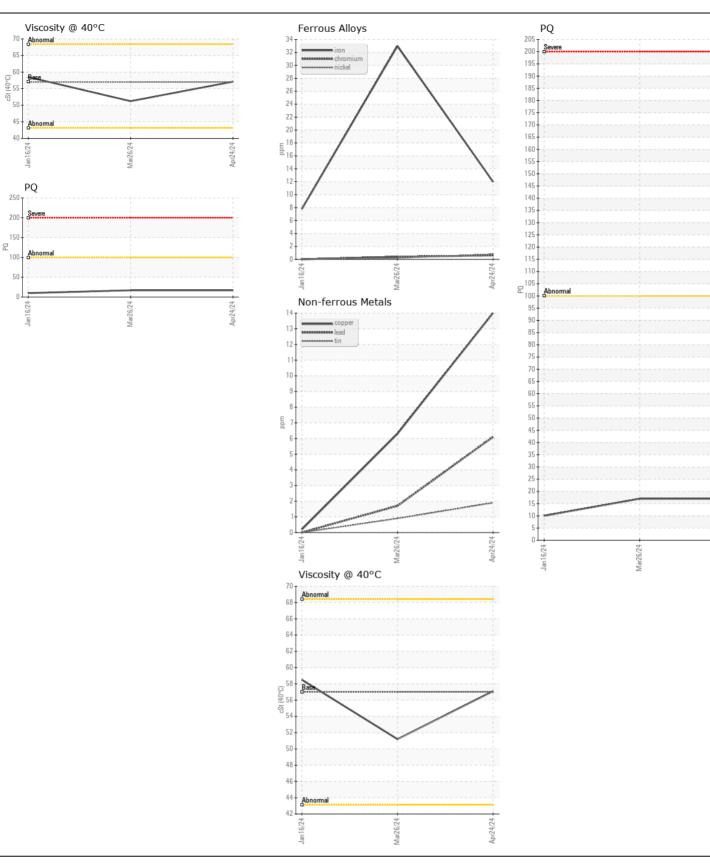
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212430	JR0209585	JR0197635
Sample Date		Client Info		24 Apr 2024	26 Mar 2024	16 Jan 2024
Machine Age	hrs	Client Info		1988	1870	1479
Oil Age	hrs	Client Info		1988	1870	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Change
Filter Changed		Client Info		Changed	Not Changd	Not Chango
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184		17	17	10
	maa		>500			8
						0
						0
Titanium		ASTM D5185m			<1	0
Silver		ASTM D5185m			<1	0
Aluminum		ASTM D5185m	>25	2	2	<1
Lead	ppm	ASTM D5185m	>25	6	2	0
Copper	ppm	ASTM D5185m	>100	14	6	<1
Tin	ppm	ASTM D5185m	>10	2	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	6	6	6
Potassium	ppm	ASTM D5185m	>20	2	3	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
Odor	scalar	*Visual	NORML	NORML	NORML	NORM
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	2	1
Boron	ppm	ASTM D5185m	6	<1	4	2
Barium	ppm			0	2	0
Molybdenum	ppm	ASTM D5185m	0	2	4	<1
Manganese	ppm	ASTM D5185m		1	3	0
Magnesium	ppm	ASTM D5185m	145	99	104	101
Calcium	ppm	ASTM D5185m	3570	3391	3603	3371
Phosphorus	ppm	ASTM D5185m	1290	1116	1096	1045
Zinc	ppm	ASTM D5185m	1640	1250	1303	1165
Sulfur	ppm	ASTM D5185m		4252	3921	3967
	Sample NumberSample DateMachine AgeOil AgeFilter AgeOil ChangedFilter ChangedSample StatusPQIronChromiumSilverAluminumLeadCopperTinVanadiumVanadiumYellow MetalYellow MetalSilterSodiumGodorSind/DirtAppearanceOdorEmulsified WaterSodiumManganeseMagnesiumCalciumPhosphorusZinc	Sample NumberSample DateMachine AgehrsOil AgehrsOil ChangedIterFilter AgeJeneFilter ChangedJeneSample StatusPQIronppmChromiumppmSilverppmAluminumppmCopperppmVanadiumppmVanadiumppmVanadiumscalarYellow MetalscalarSilverscalarSiliconppmVanadiumscalarYellow MetalscalarSodiumscalarSodiumscalarSand/DirtscalarSand/DirtscalarAppearancescalarSodiumppmBariumppmManganeseppmMagnesiumppmCalciumppmMagnesiumppmPhosphorusppmZincppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoOil ChangedClient InfoFilter AgehrsClient InfoGilten ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoPQASTM D5185mChromiumppmASTM D5185mNickelppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mLeadppmASTM D5185mLeadppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVaterWC MethodSiliconppmASTM D5185mVaterWC MethodSiltscalar*VisualPotassiumppmASTM D5185mWaterwC MethodSiltscalar*VisualAppearancescalar*VisualAppearancescalar*VisualBoronppmASTM D5185mBariumppmASTM D5185mManganeseppmASTM D5185mMagnesiumppmASTM D5185mManganeseppmASTM D5185mPhosphorusppmASTM D5185mPhosphorusppmASTM D5185mPhosphorusppmASTM D5185mPhosphorus<	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoInfoFilter ChangedInfoClient InfoFilter ChangedClient InfoSample StatusPQASTM D5185m>500ChromiumppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mYellow Metalscalar*VisualSiliconppmASTM D5185mSiliconppmASTM D5185mSiliconppmASTM D5185mSiliconppmASTM D5185mSodiumppmASTM D5185mDebrisscalar*VisualNORESand/DirtscalarSodiumppmASTM D5185mBoronppmASTM D5185mBoronppmASTM D5185mBoronppmASTM D5185mGolumppmASTM D5185mBoronppmASTM D5185mBoronppmASTM D5185mBoronppmASTM D5	Sample NumberClient InfoJR0212430Sample DateClient Info24 Apr 2024Machine AgehrsClient Info1988Oil AgehrsClient Info0Oil ChangedClient InfoChangedFilter AgeNrsClient InfoChangedSample StatusClient InfoChangedPQASTM D818417IronppmASTM D5185>10NickelppmASTM D5185>10NickelppmASTM D5185>10SilverppmASTM D5185>22LeadppmASTM D5185>10QuandumppmASTM D5185>10AluminumppmASTM D5185>10VanadiumppmASTM D5185>10Yellow Metalscalar"VisualNONEYellow Metalscalar"VisualNONESiliconppmASTM D5185>202SiliconppmASTM D5185>202SiliconppmASTM D5185>202Sand/Dirtscalar"VisualNONEAppearancescalar"VisualNORESodiumppmASTM D518526SodiumppmASTM D518522BoronppmASTM D518522BoronppmASTM D518522BoronppmASTM D518502BoronppmASTM D518513 <th>Sample NumberClient InfoJR0212430JR0209885Sample DateClient Info24 Apr 202426 Mar 2024Machine AgehrsClient Info19881870Oil AgehrsClient Info19881870Filter AgehrsClient Info00Oil ChangedClient InfoMc ChangedNot ChangdFilter ChangedIClient InfoChangedNot ChangdSample StatusClient InfoI71717IronppmASTM D5185&gt;10&lt;1&lt;1NickelppmASTM D5185&gt;10&lt;1&lt;1NickelppmASTM D5185&gt;10&lt;1&lt;1NickelppmASTM D5185&gt;10&lt;1&lt;1SilverppmASTM D5185&gt;10146TinnppmASTM D5185&gt;1014&lt;1PQASTM D5185&gt;1014&lt;1SilverppmASTM D5185&gt;1014&lt;1Pilow Metalscalar"VisualNONENONENONEVanadiumppmASTM D5185&gt;7566&lt;1Yellow Metalscalar"VisualNONENONENONESiliconppmASTM D5185&gt;7566&lt;1Yellow Metalscalar"VisualNONENONENONESand/Dirtscalar"VisualNONENONENONESand/Dirtscalar"VisualN</th>	Sample NumberClient InfoJR0212430JR0209885Sample DateClient Info24 Apr 202426 Mar 2024Machine AgehrsClient Info19881870Oil AgehrsClient Info19881870Filter AgehrsClient Info00Oil ChangedClient InfoMc ChangedNot ChangdFilter ChangedIClient InfoChangedNot ChangdSample StatusClient InfoI71717IronppmASTM D5185>10<1<1NickelppmASTM D5185>10<1<1NickelppmASTM D5185>10<1<1NickelppmASTM D5185>10<1<1SilverppmASTM D5185>10146TinnppmASTM D5185>1014<1PQASTM D5185>1014<1SilverppmASTM D5185>1014<1Pilow Metalscalar"VisualNONENONENONEVanadiumppmASTM D5185>7566<1Yellow Metalscalar"VisualNONENONENONESiliconppmASTM D5185>7566<1Yellow Metalscalar"VisualNONENONENONESand/Dirtscalar"VisualNONENONENONESand/Dirtscalar"VisualN

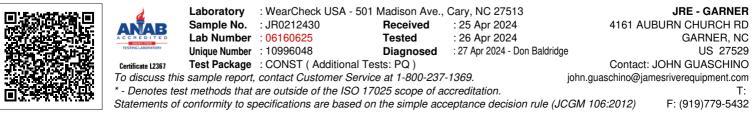
Visc @ 40°C

cSt

ASTM D445 57.0

57.1 51.2 58.5 Submitted By: RENN MASHBURN





Submitted By: RENN MASHBURN Page 2 of 2

Apr24/24