

## Machine Id JOHN DEERE 870P 1FF870PACNF000016 Component Left Final Drive Fluid GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

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## **WEAR**

All component wear rates are normal.

## CONTAMINATION

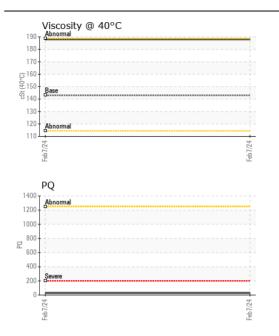
There is no indication of any contamination in the oil.

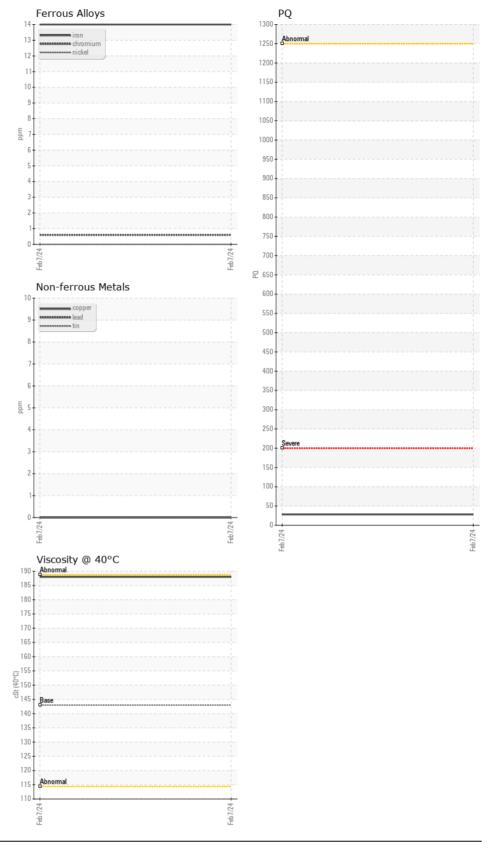
## **FLUID CONDITION**

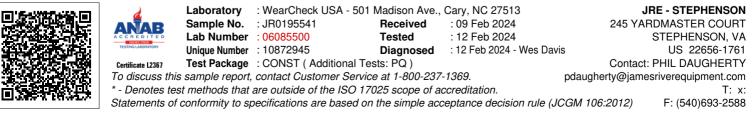
The condition of the oil is acceptable for the time in service.

TestUOMMethodLimitAbrCurrentHistory1History2Sample NumberClient InfoJR0195541Sample DateClient Info07Feb 2024Machine AgehrsClient Info0Filter AgehrsClient Info0Filter AgehrsClient InfoNot ChangeFilter ChangedClient InfoNAFilter ChangedClient InfoNAFilter ChangedClient InfoNASample StatusNot ChangePQASTM D5185>75014IronppmASTM D5185>9<1NickelppmASTM D5185>0SilverppmASTM D5185>400AluminumppmASTM D5185>400AluminumppmASTM D5185>400VandulumppmASTM D5185>100SiliconppmASTM D5185>710SiliconppmASTM D5185>710SiliconppmASTM D5185>710PotassiumppmASTM D5185>7510 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Sample DateClient InfoO 7 Feb 2024Machine AgehrsClient Info20Oil AgehrsClient Info0Filter AgehrsClient InfoNot ChangeOil ChangedClient InfoNot ChangeFilter ChangedClient InfoN/ASample StatusNORMALPQASTM D5185>125028NickelppmASTM D5185>9<1NickelppmASTM D5185>9<1NickelppmASTM D5185>9<1SilverppmASTM D5185>9<1AluminumppmASTM D5185>400AluminumppmASTM D5185>400VanadiumppmASTM D5185>400VanadiumppmASTM D5185>400VanadiumppmASTM D5185>400VanadiumppmASTM D5185>400VanadiumppmASTM D5185>400SiliconppmASTM D5185>500SiliconppmASTM D5185>75 <t< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></t<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age  hrs  Client Info  20      Oil Age  hrs  Client Info  0      Filter Age  hrs  Client Info  Not Changd      Oil Changed  Client Info  Not Changd      Filter Changed  Client Info  N/A      Sample Status  NORMAL       PQ  ASTM D5185m  5750  14      Chromium  ppm  ASTM D5185m  >10  0      Nickel  ppm  ASTM D5185m  >10  0      Aluminum  ppm  ASTM D5185m  >10  0      Aluminum  ppm  ASTM D5185m  >10      Aluminum  ppm  ASTM D5185m  >10      Vanadum  ppm  ASTM D5185m  >20  0	Sample Number		Client Info		JR0195541		
Oil Age  hrs  Client Info  0      Filter Age  hrs  Client Info  Not Changd      Gil Changed  Client Info  N/A      Filter Changed  Client Info  N/A      Sample Status  NORMAL       PQ  ASTM D5185m  >750  14      Iron  ppm  ASTM D5185m  >9  <1      Nickel  ppm  ASTM D5185m  >9  <1      Silver  ppm  ASTM D5185m  >40  0      Aluminum  ppm  ASTM D5185m  >40  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >75  10      Vanadium  ppm  ASTM D5185m	Sample Date		Client Info		07 Feb 2024		
Filter Age  hrs  Client Info  0      Oil Changed  Client Info  Not Changd      Filter Changed  O  Client Info  N/A      Sample Status  NORMAL       PQ  ASTM D5185m  >750  14      Iron  ppm  ASTM D5185m  >90  <1      Nickel  ppm  ASTM D5185m  >90  <1      Silver  ppm  ASTM D5185m  >10  0      Quantinum  ppm  ASTM D5185m  >10  0      Aluminum  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >75  10      Valadium	Machine Age	hrs	Client Info		20		
Oil Changed Filter ChangedClient InfoNot ChangdFilter ChangedClient InfoN/ASample StatusNORMALPQASTM D8184>125028IronppmASTM D5185>75014ChromiumppmASTM D5185>9<1NickelppmASTM D5185>0NickelppmASTM D51850SilverppmASTM D5185>400AluminumppmASTM D5185>400LeadppmASTM D5185>400VanadiumppmASTM D5185>10Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185>200SiliconppmASTM D5185>200Silitscalar*VisualNONENONESodiumppmASTM D5185>200SodiumppmASTM D5185>200Silitscalar*VisualNONENONESodiumppmASTM D5185>10Sodium<	Oil Age	hrs	Client Info		0		
Filter Changed Sample Status  Client Info  N/A      PQ  ASTM D8184  >1250  28      Iron  ppm  ASTM D8184  >1250  28      Chromium  ppm  ASTM D5185m  >700  14      Nickel  ppm  ASTM D5185m  >10  0      Nickel  ppm  ASTM D5185m  >10  0      Aluminum  ppm  ASTM D5185m  >40  0      Aluminum  ppm  ASTM D5185m  >40  0      Lead  ppm  ASTM D5185m  >40  0      Vanadium  ppm  ASTM D5185m  >40  0      Vanadium  ppm  ASTM D5185m  >10       Vanadium  ppm  ASTM D5185m  >75  10	Filter Age	hrs	Client Info		0		
Sample Status  NORMAL      PQ  ASTM D8184  >1250  28      Iron  ppm  ASTM D5185m  >90  <1      Nickel  ppm  ASTM D5185m  >90  <1      Nickel  ppm  ASTM D5185m  >90  <1      Nickel  ppm  ASTM D5185m  >90  <1      Silver  ppm  ASTM D5185m  >40  0      Aurninum  ppm  ASTM D5185m  >40  0      Lead  ppm  ASTM D5185m  >40  0      Vanadium  ppm  ASTM D5185m  >40  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >20  0	Oil Changed		Client Info		Not Changd		
Sample Status  NORMAL      PQ  ASTM D8184  >1250  28      Iron  ppm  ASTM D5185m  >90  <1      Nickel  ppm  ASTM D5185m  >90  <1      Nickel  ppm  ASTM D5185m  >90  <1      Nickel  ppm  ASTM D5185m  >90  <1      Silver  ppm  ASTM D5185m  >40  0      Aurninum  ppm  ASTM D5185m  >40  0      Lead  ppm  ASTM D5185m  >40  0      Vanadium  ppm  ASTM D5185m  >40  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >20  0	Filter Changed		Client Info		N/A		
Iron  ppm  ASTM D5185m  >750  14     Chromium  ppm  ASTM D5185m  >9  <1     Nickel  ppm  ASTM D5185m  0     Titanium  ppm  ASTM D5185m  0      Aluminum  ppm  ASTM D5185m  0      Aluminum  ppm  ASTM D5185m  >40  0      Lead  ppm  ASTM D5185m  >40  0      Copper  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10       Vanadium  ppm  ASTM D5185m  >75  10      Vanov  ppm  ASTM D5185m  >20  0      Silicon	Sample Status				NORMAL		
Iron  ppm  ASTM D5185m  >750  14     Chromium  ppm  ASTM D5185m  >9  <1     Nickel  ppm  ASTM D5185m  0     Titanium  ppm  ASTM D5185m  0      Aluminum  ppm  ASTM D5185m  0      Aluminum  ppm  ASTM D5185m  >40  0      Lead  ppm  ASTM D5185m  >40  0      Copper  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10       Vanadium  ppm  ASTM D5185m  >75  10      Vanov  ppm  ASTM D5185m  >20  0      Silicon							
Chromium  ppm  ASTM D5185m  >9  <1	PQ			>1250	-		
Nickel  ppm  ASTM D5185m  >10  0     Titanium  ppm  ASTM D5185m  0     Aluminum  ppm  ASTM D5185m  >40  0     Aluminum  ppm  ASTM D5185m  >40  0     Lead  ppm  ASTM D5185m  >10  0     Copper  ppm  ASTM D5185m  >10  0     Vanadium  ppm  ASTM D5185m  >10  0     Vanadium  ppm  ASTM D5185m  >10  0     Valow Metal  scalar  *Visual  NONE  NONE     Vellow Metal  scalar  *Visual  NONE  NONE     Silicon  ppm  ASTM D5185m  >75  10      Water  wC Method  >0.075  NEG      Sand/Dirt  scalar  *Visual  NORE  NORE	Iron	ppm		>750	14		
Titanium  ppm  ASTM D5185m  0     Silver  ppm  ASTM D5185m  >40  0     Aluminum  ppm  ASTM D5185m  >40  0     Lead  ppm  ASTM D5185m  >15  0     Copper  ppm  ASTM D5185m  >40  0     Vanadium  ppm  ASTM D5185m  >40  0     Vanadium  ppm  ASTM D5185m  >40  0     Vanadium  ppm  ASTM D5185m  >10  0     Vanadium  ppm  ASTM D5185m  >75  10      Valow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  10      Solit  scalar  *Visual  NONE  NONE      Debris  scalar  *Visual  <							
Silver  ppm  ASTM D5185m  0     Aluminum  ppm  ASTM D5185m  >40  0     Lead  ppm  ASTM D5185m  >15  0     Copper  ppm  ASTM D5185m  >40  0     Tin  ppm  ASTM D5185m  >10  0     Vanadium  ppm  ASTM D5185m  >10  0     Vanadium  ppm  ASTM D5185m  >10  0     Vanadium  ppm  ASTM D5185m  >10      White Metal  scalar  *Visual  NONE  NONE     Yellow Metal  scalar  *Visual  NONE  NONE     Silicon  ppm  ASTM D5185m  >20  0     Water  wC Method  >0.075  NEG      Sand/Dirt  scalar  *Visual  NONE		ppm		>10	0		
Aluminum  ppm  ASTM D5185m  >40  0      Lead  ppm  ASTM D5185m  >15  0      Copper  ppm  ASTM D5185m  >40  0      Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  NONE      Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  10      Water  WC Method  >0.075  NEG      Silt  scalar  *Visual  NONE  NONE      Sand/Dirt  scalar  *Visual  NORM  NORML      Appearance  scalar  *Visual		ppm			0		
Lead  ppm  ASTM D5185m  >15  0     Copper  ppm  ASTM D5185m  >40  0      Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  NONE      Yellow Metal  scalar  *Visual  NONE       Silicon  ppm  ASTM D5185m<>75  10      Vater  WC Method  >0.075  NEG      Water  wC Method  >0.075  NEG      Sand/Dirt  scalar  *Visual  NONE      Appearance  scalar  *Visual  NORML  NORML      Appearance  scalar  *Visual  NORML  NORML <td< th=""><th></th><th>ppm</th><th></th><th></th><th></th><th></th><th></th></td<>		ppm					
Copper  ppm  ASTM D5185m  >40  0      Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  NONE      Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  10      Potassium  ppm  ASTM D5185m  >20  0      Water  WC Method  >0.075  NEG       Silt  scalar  *Visual  NONE  NONE      Debris  scalar  *Visual  NORE  NORE      Appearance  scalar  *Visual  NORML  NORML         Godor  scalar	Aluminum	ppm		>40	-		
Tin  ppm  ASTM D5185m  >10  0     Vanadium  ppm  ASTM D5185m  0      White Metal  scalar  *Visual  NONE  NONE      Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  10      Potassium  ppm  ASTM D5185m  >20  0      Water  WC Method  >0.075  NEG      Silt  scalar  *Visual  NONE  NONE      Debris  scalar  *Visual  NONE  NONE      Appearance  scalar  *Visual  NORML  NORML      Odor  scalar  *Visual  NORML  NORML      Sodium  ppm  ASTM D5185m  200  7	Lead	ppm	ASTM D5185m	>15	0		
VanadiumppmASTM D5185m0White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7510PotassiumppmASTM D5185m>200WaterWC Method>0.075NEGSiltscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m>170<1BoronppmASTM D5185m2007BariumppmASTM D5185m120MaganeseppmASTM D5185m120MagnesiumppmASTM D5185m1203PhosphorusppmASTM D5185m1650497SollfurppmASTM D5185m1257MagnesiumppmASTM D5185m1257SollfurppmASTM D5185m125014573M	Copper	ppm	ASTM D5185m	>40	0		
White Metal  scalar  *Visual  NONE  NONE     Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  10      Potassium  ppm  ASTM D5185m  >20  0      Water  WC Method  >0.075  NEG      Silt  scalar  *Visual  NONE  NONE      Debris  scalar  *Visual  NONE  NONE      Sand/Dirt  scalar  *Visual  NONE  NORE      Appearance  scalar  *Visual  NORML  NORML      Odor  scalar  *Visual  NORML  NORML      Boron  ppm  ASTM D5185m  >170  <1      Boron  ppm  ASTM D5185m <td< th=""><th>Tin</th><th>ppm</th><th>ASTM D5185m</th><th>&gt;10</th><th>0</th><th></th><th></th></td<>	Tin	ppm	ASTM D5185m	>10	0		
Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7510PotassiumppmASTM D5185m>200WaterWC Method>0.075NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLBoronppmASTM D5185m>170<1BariumppmASTM D5185m2007MolybdenumppmASTM D5185m120ManganeseppmASTM D5185m120MagnesiumppmASTM D5185m1508PhosphorusppmASTM D5185m1650497ZincppmASTM D5185m1257SulfurppmASTM D5185m12514573SolufurppmASTM D5185m1257MagnesiumppmASTM D5185m1257Sulfur	Vanadium	ppm	ASTM D5185m		0		
SiliconppmASTM D5185m>7510PotassiumppmASTM D5185m>200WaterWC Method>0.075NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLDdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m>170<1BoronppmASTM D5185m2007MolybdenumppmASTM D5185m120ManganeseppmASTM D5185m120MagnesiumppmASTM D5185m1508PhosphorusppmASTM D5185m1650497ZincppmASTM D5185m1257ZincppmASTM D5185m1257ZincppmASTM D5185m1257XincppmASTM D5185m1257XincppmA	White Metal	scalar	*Visual	NONE	NONE		
Potassium  pp  ASTM D5185m  >20  0      Water  WC Method  >0.075  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  NORML  NORML      Godr  scalar  *Visual  NORML  NORML      Godr  scalar  *Visual  NORML  NORML      Boron  ppm  ASTM D5185m  >170  <1      Barium  ppm  ASTM D5185m  200  7      Magnese  ppm  ASTM D5185m	Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium  pp  ASTM D5185m  >20  0      Water  WC Method  >0.075  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  NORML  NORML      Godr  scalar  *Visual  NORML  NORML      Godr  scalar  *Visual  NORML  NORML      Boron  ppm  ASTM D5185m  >170  <1      Barium  ppm  ASTM D5185m  200  7      Magnese  ppm  ASTM D5185m	Silicon	nnm	ASTM D5185m	<u>\75</u>	10		
WaterWC Method>0.075NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>170<1BoronppmASTM D5185m2007MolybdenumppmASTM D5185m120MagnesiumppmASTM D5185m120MagnesiumppmASTM D5185m1508PhosphorusppmASTM D5185m1257ZincppmASTM D5185m1257SulfurppmASTM D5185m12514573					-		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>170<1BoronppmASTM D5185m2007BariumppmASTM D5185m120MalganeseppmASTM D5185m120MagnesiumppmASTM D5185m1508PhosphorusppmASTM D5185m1650497ZincppmASTM D5185m1257SulfurppmASTM D5185m2250014573		ррш					
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLDdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>170<1BoronppmASTM D5185m2007BariumppmASTM D5185m2007MolybdenumppmASTM D5185m120MagnesiumppmASTM D5185m120PhosphorusppmASTM D5185m1508ZincppmASTM D5185m1257SulfurppmASTM D5185m1257		scalar					
Sand/Dirt  scalar  *Visual  NONE  NONE     Appearance  scalar  *Visual  NORML  NORML      Odor  scalar  *Visual  NORML  NORML      Odor  scalar  *Visual  NORML  NORML      Emulsified Water  scalar  *Visual  >0.075  NEG      Sodium  ppm  ASTM D5185m  >170  <1      Boron  ppm  ASTM D5185m  200  7      Barium  ppm  ASTM D5185m  200  7      Malganese  ppm  ASTM D5185m  12  0      Magnesium  ppm  ASTM D5185m  12  0      Calcium  ppm  ASTM D5185m  150  8      Phosphorus  ppm  ASTM D51							
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>170<1BoronppmASTM D5185m20097BariumppmASTM D5185m2007MolybdenumppmASTM D5185m120MaganeseppmASTM D5185m120MagnesiumppmASTM D5185m1508PhosphorusppmASTM D5185m1650497ZincppmASTM D5185m1257SulfurppmASTM D5185m2250014573					-		
Odor  scalar  *Visual  NORML  NORML     Emulsified Water  scalar  *Visual  >0.075  NEG     Sodium  ppm  ASTM D5185m  >170  <1      Boron  ppm  ASTM D5185m  200  97      Barium  ppm  ASTM D5185m  200  7      Molybdenum  ppm  ASTM D5185m  200  7      Manganese  ppm  ASTM D5185m  12  0      Magnesium  ppm  ASTM D5185m  12  0      Calcium  ppm  ASTM D5185m  12  0      Phosphorus  ppm  ASTM D5185m  150  8      Zinc  ppm  ASTM D5185m  1650  497      Sulfur  ppm  ASTM D5185m  125							
Emulsified Water  scalar  *Visual  >0.075  NEG      Sodium  ppm  ASTM D5185m  >170  <1      Boron  ppm  ASTM D5185m  400  97      Barium  ppm  ASTM D5185m  200  7      Molybdenum  ppm  ASTM D5185m  12  0      Manganese  ppm  ASTM D5185m  12  0      Magnesium  ppm  ASTM D5185m  12  0      Phosphorus  ppm  ASTM D5185m  12  0      Zinc  ppm  ASTM D5185m  150  8      Sulfur  ppm  ASTM D5185m  1650  497      Zinc  ppm  ASTM D5185m  125  7					-		
Sodium  ppm  ASTM D5185m  >170  <1							
Boron  ppm  ASTM D5185m  400  97      Barium  ppm  ASTM D5185m  200  7      Molybdenum  ppm  ASTM D5185m  12  0      Manganese  ppm  ASTM D5185m  12  0      Magnesium  ppm  ASTM D5185m  12  0      Calcium  ppm  ASTM D5185m  12  0      Phosphorus  ppm  ASTM D5185m  120  8      Zinc  ppm  ASTM D5185m  150  8      Sulfur  ppm  ASTM D5185m  1650  497							
Barium  ppm  ASTM D5185m  200  7     Molybdenum  ppm  ASTM D5185m  12  0      Manganese  ppm  ASTM D5185m  12  0      Magnesium  ppm  ASTM D5185m  12  0      Calcium  ppm  ASTM D5185m  12  0      Phosphorus  ppm  ASTM D5185m  150  8      Zinc  ppm  ASTM D5185m  1650  497      Sulfur  ppm  ASTM D5185m  125  7	Sodium	ppm	ASTM D5185m	>170	<1		
Molybdenum  ppm  ASTM D5185m  12  0      Manganese  ppm  ASTM D5185m  12  0      Magnesium  ppm  ASTM D5185m  12  0      Calcium  ppm  ASTM D5185m  150  8      Phosphorus  ppm  ASTM D5185m  1650  497      Zinc  ppm  ASTM D5185m  125  7      Sulfur  ppm  ASTM D5185m  22500  14573	Boron	ppm	ASTM D5185m	400	97		
Manganese  ppm  ASTM D5185m  3     Magnesium  ppm  ASTM D5185m  12  0      Calcium  ppm  ASTM D5185m  150  8      Phosphorus  ppm  ASTM D5185m  1650  497      Zinc  ppm  ASTM D5185m  125  7      Sulfur  ppm  ASTM D5185m  22500  14573	Barium	ppm	ASTM D5185m	200	7		
Magnesium  ppm  ASTM D5185m  12  0      Calcium  ppm  ASTM D5185m  150  8      Phosphorus  ppm  ASTM D5185m  1650  497      Zinc  ppm  ASTM D5185m  125  7      Sulfur  ppm  ASTM D5185m  22500  14573	Molybdenum	ppm	ASTM D5185m	12	0		
Calcium  ppm  ASTM D5185m  150  8     Phosphorus  ppm  ASTM D5185m  1650  497      Zinc  ppm  ASTM D5185m  125  7      Sulfur  ppm  ASTM D5185m  22500  14573	Manganese	ppm	ASTM D5185m		3		
Phosphorus  ppm  ASTM D5185m  1650  497      Zinc  ppm  ASTM D5185m  125  7      Sulfur  ppm  ASTM D5185m  22500  14573	Magnesium	ppm	ASTM D5185m	12	0		
Zinc  ppm  ASTM D5185m  125  7     Sulfur  ppm  ASTM D5185m  22500  14573	Calcium	ppm	ASTM D5185m	150	8		
Sulfur  ppm  ASTM D5185m  22500  14573	Phosphorus	ppm	ASTM D5185m	1650	497		
	Zinc	ppm	ASTM D5185m	125	7		
Visc @ 40°C cSt ASTM D445 143 ( 188 )	Sulfur	ppm	ASTM D5185m	22500	14573		
	Visc @ 40°C	cSt	ASTM D445	143	188		

Contact/Location: PHIL DAUGHERTY - JAMWIN







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