

#### Machine Id JOHN DEERE S670 1H0S670SJD0765098 Component Hydraulic System

{not provided} (--- GAL)

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### **WEAR**

All component wear rates are normal.

# CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

# FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

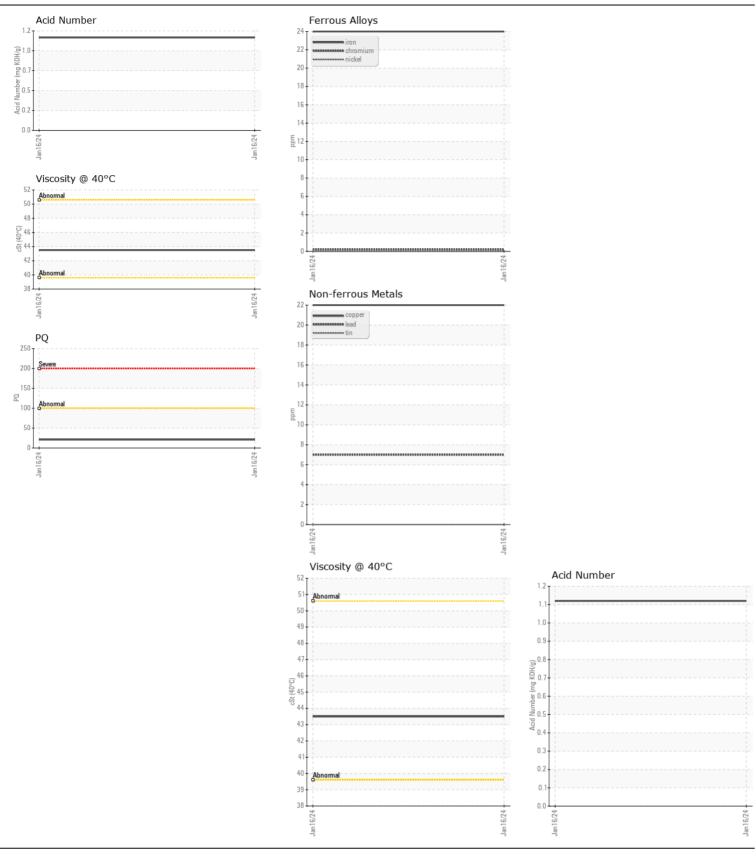
TestUOMMethodLimit/AmCurrentHistory1History2Sample NumberClient InfoJR0201656Sample DateClient Info0Machine AgehrsClient Info0Filter AgehrsClient Info0Filter AgehrsClient InfoN/AFilter ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/APQASTM D5185>10<1IronppmASTM D5185>10<1NickelppmASTM D5185>101SilverppmASTM D5185>101AuminumppmASTM D5185>101LeadppmASTM D5185>100VanadiumppmASTM D5185>100VanadiumppmASTM D5185>100VanadiumppmASTM D5185>100VanadiumppmASTM D5185>100SiliconppmASTM D5185>100SiliconppmASTM D5185>203<							
Sample Date         Client Info         16 Jan 2024             Machine Age         hrs         Client Info         0             Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         ASTM D8184         21             PQ         ASTM D8185         >10         0             Nickel         ppm         ASTM D5185         >10         0             Nickel         ppm         ASTM D5185         >10         1             Silver         ppm         ASTM D5185         >10         1             Auminum         ppm         ASTM D5185         10         1             Vanadium         ppm         ASTM D5185         10              Yaluminum         ppm         ASTM D5185         10	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age         hrs         Client Info         0            Oil Age         hrs         Client Info         0            Filter Age         hrs         Client Info         N/A            Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         Client Info         N/A             PQ         ASTM D8184         21             Iron         ppm         ASTM D5185         >20         24             Nickel         ppm         ASTM D5185         >10         0             Silver         ppm         ASTM D5185         >10         1             Auminum         ppm         ASTM D5185         >10         1             Auminum         ppm         ASTM D5185         >10         0             Auminum         ppm         ASTM D5185         >10         0	Sample Number		Client Info		JR0201656		
Oil Age         hrs         Client Info         0            Filter Age         hrs         Client Info         N/A            Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         ASTM D8184         21             PQ         ASTM D5185         >20         24             Iron         ppm         ASTM D5185         >10         0             Nickel         ppm         ASTM D5185         >10         0             Silver         ppm         ASTM D5185         >10         1             Aluminum         ppm         ASTM D5185         10         1             Age         ppm         ASTM D5185         >10         0             Age         ppm         ASTM D5185         >10         0             Vanadium         ppm         ASTM D5185         22         <	Sample Date		Client Info		16 Jan 2024		
Filter Age         hrs         Client Info         0             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         ASTM D8184         21             PQ         ASTM D8184         21             Iron         ppm         ASTM D5185         >20         24             Chromium         ppm         ASTM D5185         >10         0             Nickel         ppm         ASTM D5185         >10         0             Silver         ppm         ASTM D5185         >10         1             Aluminum         ppm         ASTM D5185         >10         1             Vanadium         ppm         ASTM D5185         >10             Vanadium         ppm         ASTM D5185         20         3            Vanadium         ppm         ASTM D5185         20         3         -	Machine Age	hrs	Client Info		0		
Oil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusABNORMALPQASTM D818421IronppmASTM D5185m>2024DromiumppmASTM D5185m>100NickelppmASTM D5185m>100NickelppmASTM D5185m>100TitaniumppmASTM D5185m>101SilverppmASTM D5185m>101LeadppmASTM D5185m>107CopperppmASTM D5185m>100VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>203PotassiumppmASTM D5185m>203SiliconppmASTM D5185m>203SoliumppmASTM D5185m>203SoliumppmASTM D5185m>203SoliumppmASTM D5185m>203SoliumppmASTM D5185m>203SoliumppmASTM D5185m20Soliu	Oil Age	hrs	Client Info		0		
Filter Changed Sample Status         Client Info         N/A             Sample Status         ABNORMAL           ABNORMAL            PQ         ASTM D8184         21             Iron         ppm         ASTM D5185m         >20         24            Chromium         ppm         ASTM D5185m         <1             Nickel         ppm         ASTM D5185m         <1             Silver         ppm         ASTM D5185m         <1             Aluminum         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0             Lead         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Yellow Metal         scalar         'Visual         NONE         NORE             Silicon         ppm         ASTM D5	Filter Age	hrs	Client Info		0		
Sample Status         ABNORMAL            PQ         ASTM D8184         21            Iron         ppm         ASTM D5185m         >20         24            Nickel         ppm         ASTM D5185m         >10             Nickel         ppm         ASTM D5185m         >10         0             Silver         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >20         6             Vanadium         ppm         ASTM D5185m         >20         3             Silicon         ppm         ASTM D5185m	Oil Changed		Client Info		N/A		
PQ         ASTM D8184         21            Iron         ppm         ASTM D5185m         >20         24            Chromium         ppm         ASTM D5185m         >10         <1            Nickel         ppm         ASTM D5185m         >10         0            Titanium         ppm         ASTM D5185m         <10         0            Silver         ppm         ASTM D5185m         <10         0            Aluminum         ppm         ASTM D5185m         >10         0            Copper         ppm         ASTM D5185m         >75         22             Vanadium         ppm         ASTM D5185m         >70         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >20         3             Vanadium         ppm         ASTM D5185m         >20         3	Filter Changed		Client Info		N/A		
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Iron         ppm         ASTM 05185m         >20         24             Chromium         ppm         ASTM 05185m         >10         0             Nickel         ppm         ASTM 05185m         >10         0             Titanium         ppm         ASTM 05185m         >10         1             Aluminum         ppm         ASTM 05185m         >10         1             Aluminum         ppm         ASTM 05185m         >10         7             Lead         ppm         ASTM 05185m         >10         0             Copper         ppm         ASTM 05185m         >10         0             Vanadium         ppm         ASTM 05185m         >10         0             Vanadium         ppm         ASTM 05185m         >20         3             Value         visual         NONE         NONE              Silicon         ppm         ASTM 05185	<b>DO</b>				• ·		
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Nickel         ppm         ASTM D5185m         >10         0             Titanium         ppm         ASTM D5185m         <1             Silver         ppm         ASTM D5185m         0         1             Aluminum         ppm         ASTM D5185m         >10         7             Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Valow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         3             Sudar         Visual         NONE         NONE	-						
Titanium         ppm         ASTM D5185m          I           Silver         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         >10         1             Aluminum         ppm         ASTM D5185m         >10         7             Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         0         0             Vanadium         ppm         ASTM D5185m         0         0             Vanadium         ppm         ASTM D5185m         >0         0             Valde         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         3             Sudar         visual         NONE         NONE							
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Aluminum         ppm         ASTM D5185m         >10         1             Lead         ppm         ASTM D5185m         >10         7             Copper         ppm         ASTM D5185m         >75         22             Tin         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >20         6             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         3             Silit         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORL         NORML             Appearance         scalar							
Lead         ppm         ASTM D5185m         >10         7             Copper         ppm         ASTM D5185m         >75         22             Tin         ppm         ASTM D5185m         >10         0             Vanadium         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<>20         6             Water         WC Method         >0.1         NEG             Sult         scalar         *Visual         NONE         NONE            Debris         scalar         *Visual         NORM         MORML             Appearance         scalar         *Visual         NORML         NORML<				10			
Copper         ppm         ASTM D5185m         >75         22            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         >20         6             Potassium         ppm         ASTM D5185m         >20         3             Silicon         ppm         ASTM D5185m         >20         3             Water         WC Method         >0.1         NEG              Sand/Dirt         scalar         *Visual         NONE         NORE             Appearance         scalar         *Visual         NORM         NORML             Sodium         ppm         ASTM D5185m         Q					-		
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         >20         3            Potassium         ppm         ASTM D5185m         >20         3            Water         WC Method         >0.1         NEG             Silt         scalar         *Visual         NONE         NONE            Sand/Dirt         scalar         *Visual         NORE             Appearance         scalar         *Visual         NORM         NORML             Odor         scalar         *Visual         NORM         NORML             Goron         ppm         ASTM D5185m         2             Boron         ppm         ASTM D5185m <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Vanadium         ppm         ASTM D5185m         0            White Metal         scalar         *Visual         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         6             Potassium         ppm         ASTM D5185m         >20         3             Water         WC Method         >0.1         NEG              Silit         scalar         *Visual         NONE         MODER             Debris         scalar         *Visual         NONE         MODER             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Sodium         ppm         ASTM D5185m         2             Boron         ppm         ASTM D5185m          <1							
White Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         6             Potassium         ppm         ASTM D5185m         >20         3             Water         WC Method         >0.1         NEG              Silt         scalar         *Visual         NONE         MONE             Debris         scalar         *Visual         NONE         MODER             Sand/Dirt         scalar         *Visual         NORM         MONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Boron         ppm         ASTM D5185m         2             Barium         ppm         ASTM D5185m <td< th=""><th></th><th></th><th></th><th>&gt;10</th><th>-</th><th></th><th></th></td<>				>10	-		
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SiliconppmASTM D5185m>206PotassiumppmASTM D5185m>203WaterWC Method>0.1NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONEMONEAppearancescalar*VisualNORMMORMLOdorscalar*VisualNORMLNORMLBoronppmASTM D5185m2BariumppmASTM D5185m0MolybdenumppmASTM D5185m1ManganeseppmASTM D5185m3921MagnesiumppmASTM D5185m1243PhosphorusppmASTM D5185m1243ZincppmASTM D5185m1243SulfurppmASTM D5185m1243					-		
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Siltscalar*VisualNONENONEDebrisscalar*VisualNONE▲ MODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m2BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m1MagnesiumppmASTM D5185m3921PhosphorusppmASTM D5185m948ZincppmASTM D5185m1243SulfurppmASTM D5185m3659	Potassium		ASTM D5185m	>20	3		
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Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m2BoronppmASTM D5185m<1BariumppmASTM D5185m0MolybdenumppmASTM D5185m<1MaganeseppmASTM D5185m1MagnesiumppmASTM D5185m3921PhosphorusppmASTM D5185m1243ZincppmASTM D5185m1243SulfurppmASTM D5185m1243							
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Emulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m2BoronppmASTM D5185m<<1BariumppmASTM D5185m0MolybdenumppmASTM D5185m<<1ManganeseppmASTM D5185m1MagnesiumppmASTM D5185m<96CalciumppmASTM D5185m3921PhosphorusppmASTM D5185m<1243ZincppmASTM D5185m<3659	Debris	scalar	*Visual	NONE			
Sodium         ppm         ASTM D5185m         2            Boron         ppm         ASTM D5185m         <1            Barium         ppm         ASTM D5185m         0            Barium         ppm         ASTM D5185m         0            Molybdenum         ppm         ASTM D5185m         <1            Manganese         ppm         ASTM D5185m         1            Magnesium         ppm         ASTM D5185m         96            Calcium         ppm         ASTM D5185m         3921            Phosphorus         ppm         ASTM D5185m         948            Zinc         ppm         ASTM D5185m         1243            Sulfur         ppm         ASTM D5185m         3659	Debris Sand/Dirt	scalar scalar	*Visual *Visual	NONE NONE	MODER		
Boron         ppm         ASTM D5185m         <1	Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NORML	MODER NONE NORML	 	  
Boron         ppm         ASTM D5185m         <1	Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NORML NORML	MODER NONE NORML NORML	 	  
Barium         ppm         ASTM D5185m         0            Molybdenum         ppm         ASTM D5185m         <1            Manganese         ppm         ASTM D5185m         1            Magnesium         ppm         ASTM D5185m         96            Calcium         ppm         ASTM D5185m         3921            Phosphorus         ppm         ASTM D5185m         948            Zinc         ppm         ASTM D5185m         1243            Sulfur         ppm         ASTM D5185m         3659	Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NORML NORML	MODER NONE NORML NORML NEG	 	  
Molybdenum         ppm         ASTM D5185m         <1	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML	MODER NONE NORML NORML NEG 2		
Manganese         ppm         ASTM D5185m         1            Magnesium         ppm         ASTM D5185m         96             Calcium         ppm         ASTM D5185m         3921             Phosphorus         ppm         ASTM D5185m         948             Zinc         ppm         ASTM D5185m         1243             Sulfur         ppm         ASTM D5185m         3659	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NORML NORML	MODER NONE NORML NORML NEG 2 <1		
Magnesium         ppm         ASTM D5185m         96            Calcium         ppm         ASTM D5185m         3921            Phosphorus         ppm         ASTM D5185m         948            Zinc         ppm         ASTM D5185m         1243            Sulfur         ppm         ASTM D5185m         3659	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NORML NORML	MODER NONE NORML NORML NEG 2 <1 0		
Calcium         ppm         ASTM D5185m         3921             Phosphorus         ppm         ASTM D5185m         948             Zinc         ppm         ASTM D5185m         1243             Sulfur         ppm         ASTM D5185m         3659	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	MODER NONE NORML NEG 2 <1 0 <1		
Phosphorus         ppm         ASTM D5185m         948             Zinc         ppm         ASTM D5185m         1243             Sulfur         ppm         ASTM D5185m         3659	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	MODER NONE NORML NEG 2 <1 0 <1 1		
Zinc         ppm         ASTM D5185m         1243             Sulfur         ppm         ASTM D5185m         3659	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	MODER NONE NORML NORML NEG 2 <1 <1 1 96		
Sulfur         ppm         ASTM D5185m         3659	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	<ul> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> <li>&lt;1</li> <li>0</li> <li>&lt;1</li> <li>1</li> <li>96</li> <li>3921</li> </ul>		
	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	<ul> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>2</li> <li>&lt;1</li> <li>0</li> <li>&lt;1</li> <li>1</li> <li>96</li> <li>3921</li> <li>948</li> </ul>		
Acid Number (AN) mg KOH/g ASIM D8045 1.12	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	<ul> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>2</li> <li>&lt;1</li> <li>0</li> <li>&lt;1</li> <li>1</li> <li>96</li> <li>3921</li> <li>948</li> <li>1243</li> </ul>		
	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML	<ul> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> <li>&lt;1</li> <li>0</li> <li>&lt;1</li> <li>1</li> <li>96</li> <li>3921</li> <li>948</li> <li>1243</li> <li>3659</li> </ul>		

Visc @ 40°C cSt

ASTM D445

Contact/Location: BILL ACKER - JAMWAK

43.5



JRE - WAKEFIELD Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0201656 Recieved : 17 Jan 2024 10489 GENERAL MAHONE HWY Lab Number : 06062528 Diagnosed WAKEFIELD, VA : 18 Jan 2024 : 10833910 Unique Number Diagnostician : Don Baldridge US 23888 Test Package : CONST (Additional Tests: PQ) Contact: BILL ACKER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. backer@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (757)899-3232 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (757)899-6464

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