

# [JASON BUSHONG]

# JOHN DEERE 6129M C318901 (S/N 1LV6129MPLG982725)

# Front Left Final Drive

## JÕHN DEERE HY-GARD HYD/TRANS (--- GAL)

### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### **WEAR**

All component wear rates are normal.

#### CONTAMINATION

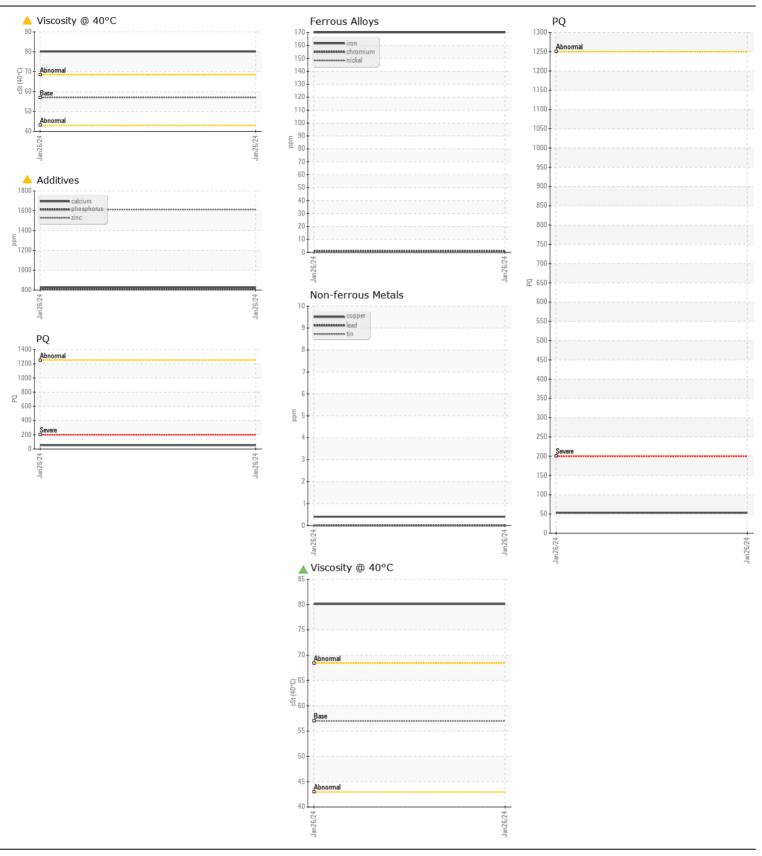
There is no indication of any contamination in the oil.

#### FLUID CONDITION

The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Test         UOM         Method         Limit/km         Current         History1         History1           Sample Number         Client Info         ZB Jan 2024             Machine Age         hrs         Client Info         G36             Oil Age         hrs         Client Info         G36             Filter Age         hrs         Client Info         Changed             Filter Age         hrs         Client Info         Changed             Filter Changed         Client Info         N/A              Sample Status         Client Info         N/A              Fron         ppm         ASTM D5185m         >750         170             Nickel         ppm         ASTM D5185m         >90         1             Nickel         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0							
Sample Date         Client Info         26 Jan 2024             Machine Age         hrs         Client Info         636             Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         Changed             Filter Changed         Client Info         N/A             Sample Status         XIT         XIA             Sample Status         XIT         XIT         XIT             PQ         ASTM D5185         >750         170             Chromium         ppm         ASTM D5185         >0         1             Silver         ppm         ASTM D5185         >10         0             Aluminum         ppm         ASTM D5185         >10              Aluminum         ppm         ASTM D5185         >10              Aluminum         ppm         ASTM D5185         >10         <	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info636Oil AgehrsClient Info636Filter AgehrsClient InfoChangedOil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusXTM DS184>1250533PQASTM DS185m>750170IronppmASTM DS185m>91NickelppmASTM DS185m>91NickelppmASTM DS185m>100AluminumppmASTM DS185m>402AluminumppmASTM DS185m>402VanadiumppmASTM DS185m>100YandoiumppmASTM DS185m>100YalibusscalarYisualNONENONEYalibusscalarYisualNONENONESiliconppmASTM DS185m>75622YalibusscalarYisualNONENONESiliconppmASTM DS185m>2012YalibusscalarYisualNONENONESiliconppm<	Sample Number		Client Info		JR0169350		
Oil Age         hrs         Client Info         636             Filter Age         hrs         Client Info         0             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         ATTENTON             PQ         ASTM D8184         >1250         53             Iron         ppm         ASTM D5185         >9         1             Chromium         ppm         ASTM D5185         >9         1             Nickel         ppm         ASTM D5185         >9         1             Aluminum         ppm         ASTM D5185         >40         2             Auminum         ppm         ASTM D5185         >10         0             Auminum         ppm         ASTM D5185         >10         0             Vanadium         ppm         ASTM D5185         >10         0	Sample Date		Client Info		26 Jan 2024		
Filter Age         hrs         Client Info         O             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status          ATTENTION             PQ         ASTM D8184         >1250         53             Iron         ppm         ASTM D5185m         >9         1             Nickel         ppm         ASTM D5185m         >9         1             Nickel         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >40         2             Aluminum         ppm         ASTM D5185m         >40         <1             Lead         ppm         ASTM D5185m         >40         <1             Varadium         ppm         ASTM D5185m         >10         0             Velow Metal         scalar<'tvisual	Machine Age	hrs	Client Info		636		
Oll Changed         Client Info         Changed            Filter Changed         Client Info         N/A             Sample Status         ATTENTION             PQ         ASTM D8184         >1250         53            Iron         ppm         ASTM D5185m         >70         170            Chromium         ppm         ASTM D5185m         >9         1            Nickel         ppm         ASTM D5185m         >10         0            Nickel         ppm         ASTM D5185m         >10         0            Nickel         ppm         ASTM D5185m         >40         2            Aluminum         ppm         ASTM D5185m         >40         <-1            Lead         ppm         ASTM D5185m         >40         <-1            Vanadium         ppm         ASTM D5185m         >40         <-1            Yellow Metal         scalar         'Visual         NONE             Yellow Metal         scalar         'Visual         NONE         <	Oil Age	hrs	Client Info		636		
Filter Changed Sample Status         Client Info         N/A             PQ         ASTM D8184         >1250         53             Iron         pm         ASTM D5185n         >750         170             Nickel         pm         ASTM D5185n         >9         1             Nickel         pm         ASTM D5185n         >10         0             Silver         ppm         ASTM D5185n         >10         0             Aluminum         pm         ASTM D5185n         >10         0             Aluminum         pm         ASTM D5185n         >40         <1             Lead         pm         ASTM D5185n         >10         0             Vanadium         pm         ASTM D5185n         >10         0             Vanadium         pm         ASTM D5185n         >10         0             Vanadium         pp         ASTM D5185n         >20         2         <	Filter Age	hrs	Client Info		0		
Sample Status         ATTENTION             PQ         ASTM D8184         >1250         53             Iron         ppm         ASTM D8184         >1250         53             Chromium         ppm         ASTM D5185m         >9         1             Nickel         ppm         ASTM D5185m         >10         0             Silver         ppm         ASTM D5185m         <10         0             Aluminum         ppm         ASTM D5185m         >40         2             Aluminum         ppm         ASTM D5185m         >10         0             Agad         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0	Oil Changed		Client Info		Changed		
PQ       ASTM D8184       >1250       53           Iron       ppm       ASTM D5185m       >750       170           Chromium       ppm       ASTM D5185m       >9       1           Nickel       ppm       ASTM D5185m       >10       0           Titanium       ppm       ASTM D5185m       >10       0           Aluminum       ppm       ASTM D5185m       >40       2           Aluminum       ppm       ASTM D5185m       >40       <1           Auminum       ppm       ASTM D5185m       >10       0	Filter Changed		Client Info		N/A		
Iron         ppm         ASTM D5185m         >750         170            Chromium         ppm         ASTM D5185m         >9         1            Nickel         ppm         ASTM D5185m         >10         0            Titanium         ppm         ASTM D5185m         <1             Aluminum         ppm         ASTM D5185m         >40         2             Aluminum         ppm         ASTM D5185m         >40         2             Aluminum         ppm         ASTM D5185m         >40         <1             Lead         ppm         ASTM D5185m         >40         <1             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >75         62             Yellow Metal         scalar         *Visual         NONE         NONE <t< th=""><th>Sample Status</th><th></th><th></th><th></th><th>ATTENTION</th><th></th><th></th></t<>	Sample Status				ATTENTION		
Iron         ppm         ASTM D5185m         >750         170            Chromium         ppm         ASTM D5185m         >9         1            Nickel         ppm         ASTM D5185m         >10         0            Titanium         ppm         ASTM D5185m         <1             Aluminum         ppm         ASTM D5185m         >40         2             Aluminum         ppm         ASTM D5185m         >40         2             Aluminum         ppm         ASTM D5185m         >40         <1             Lead         ppm         ASTM D5185m         >40         <1             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >75         62             Yellow Metal         scalar         *Visual         NONE         NONE <t< th=""><th><b>DO</b></th><th></th><th></th><th>1050</th><th></th><th></th><th></th></t<>	<b>DO</b>			1050			
Chromium         ppm         ASTM D5185m         >9         1            Nickel         ppm         ASTM D5185m         >10         0            Titanium         ppm         ASTM D5185m         <1							
Nickel         ppm         ASTM D5185m         >10         0             Titanium         ppm         ASTM D5185m         <1             Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >40         2             Lead         ppm         ASTM D5185m         >40         <1             Copper         ppm         ASTM D5185m         >40         <1             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >75         62             Vellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         2             Water         WC Method         >0.075         NEG	-				-		
Titanium         ppm         ASTM D5185m         <1					-		
Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >40         2             Lead         ppm         ASTM D5185m         >15         0             Copper         ppm         ASTM D5185m         >40         <1             Tin         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >75         62             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         2             Solit         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual <td< th=""><th></th><th></th><th></th><th>&gt;10</th><th></th><th></th><th></th></td<>				>10			
Aluminum         ppm         ASTM D5185m         >40         2            Lead         ppm         ASTM D5185m         >15         0            Copper         ppm         ASTM D5185m         >40         <1							
Lead         ppm         ASTM D5185m         >15         0            Copper         ppm         ASTM D5185m         >40         <1            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         62             Vater         WC Method         >0.075         NEG             Silt         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NOR         NORE             Appearance         scalar         *Visual         NORML         NORML             Godor         scalar         *Visual         NOR         A <th></th> <th></th> <th></th> <th>40</th> <th></th> <th></th> <th></th>				40			
CopperppmASTM D5185m>40<1					_		
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         62             Potassium         ppm         ASTM D5185m         >20         2             Water         WC Method         >0.075         NEG             Silt         scalar         *Visual         NONE         NONE            Debris         scalar         *Visual         NONE         NONE            Appearance         scalar         *Visual         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML            Gdor         scalar         *Visual         NORML         NORML             Molybdenum         ppm <t< th=""><th>-</th><th></th><th></th><th></th><th>-</th><th></th><th></th></t<>	-				-		
VanadiumppmASTM D5185m0White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7562PotassiumppmASTM D5185m>202WaterWC Method>0.075NEGSiltscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m>510BoronppmASTM D5185m0<134MalganeseppmASTM D5185m0<11ManganeseppmASTM D5185m145<5ManganeseppmASTM D5185m16401613PhosphorusppmASTM D5185m16401613SollfurppmASTM D5185m16401613MagnesiumppmASTM D5185m16401613SulfurppmASTM D5185m16401613 <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr<>							
White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m<>75         62             Potassium         ppm         ASTM D5185m<>20         2             Water         WC Method         >0.075         NEG             Silt         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Sodium         ppm         ASTM D5185m         >51         0             Boron         ppm         ASTM D5185m         0         <134             Molybdenum         ppm         ASTM D5185m         0		ppm		>10			
Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7562PotassiumppmASTM D5185m>202WaterWC Method>0.075NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m>510BoronppmASTM D5185m0<11MolybdenumppmASTM D5185m0<11ManganeseppmASTM D5185m3570& 824MagnesiumppmASTM D5185m1290810ZincppmASTM D5185m16401613SulfurppmASTM D5185m16401613					•		
Silicon       ppm       ASTM D5185m       >75       62           Potassium       ppm       ASTM D5185m       >20       2           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           Sodium       ppm       ASTM D5185m       >51       0           Sodium       ppm       ASTM D5185m       0 $4$ 134           Barium       ppm       ASTM D5185m       0 $4$ $2$ Malganese       ppm       ASTM D5185m       0 $4$ $5$ <tr< th=""><th>White Metal</th><th>coalar</th><th>*Visual</th><th>NONE</th><th>NONE</th><th></th><th></th></tr<>	White Metal	coalar	*Visual	NONE	NONE		
Potassium         ppm         ASTM D5185m         >20         2          I            Water         WC Method         >0.075         NEG          I            Silt         scalar         *Visual         NONE         NONE          I            Debris         scalar         *Visual         NONE         NONE          I            Sand/Dirt         scalar         *Visual         NONE         NONE          I            Appearance         scalar         *Visual         NORML         NORML          I            Odor         scalar         *Visual         NORML         NORML          I            Odor         scalar         *Visual         NORML         NORML          I            Sodium         ppm         ASTM D5185m         >51         0          I            Boron         ppm         ASTM D5185m         0         <13          I            Molybdenum         ppm         AS					_		
Potassium         ppm         ASTM D5185m         >20         2             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             Molyodenum         scalar         *Visual         NORM         NORML             Sodium         ppm         ASTM D5185m         6         A 134             Boron         ppm         ASTM D5185m         0         <1             Molybdenum         ppm         ASTM D5185m         0         <1             Magnesium         ppm         ASTM D5185					_		
WaterWC Method>0.075NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*Visual>0.075NEGSodiumppmASTM D5185m>510BoronppmASTM D5185m0 <b>4</b> 134BariumppmASTM D5185m0 <b>4</b> 134MalganeseppmASTM D5185m0<11MagnesiumppmASTM D5185m145 <b>3</b> PhosphorusppmASTM D5185m1290 <b>810</b> ZincppmASTM D5185m16401613SulfurppmASTM D5185m164016431	Yellow Metal	scalar	*Visual	NONE	NONE		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLDdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>510BoronppmASTM D5185m6A 134BariumppmASTM D5185m0<13MalganeseppmASTM D5185m1453MagnesiumppmASTM D5185m145A 54PhosphorusppmASTM D5185m1290810ZincppmASTM D5185m16401613SulfurppmASTM D5185m164016431	Yellow Metal Silicon	scalar ppm	*Visual ASTM D5185m	NONE	NONE 62		
Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.075         NEG             Sodium         ppm         ASTM D5185m         >51         0             Boron         ppm         ASTM D5185m         6         ▲ 134             Barium         ppm         ASTM D5185m         0         <11             Malganese         ppm         ASTM D5185m         0         <11             Magnesium         ppm         ASTM D5185m         145         4         5             Calcium         ppm         ASTM D5185m         3570         & 824             Phosphorus         ppm         ASTM D5185m         1290         810	Yellow Metal Silicon Potassium	scalar ppm	*Visual ASTM D5185m ASTM D5185m	NONE >75 >20	NONE 62 2		
Appearancescalar*VisualNORMLNORMLIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Yellow Metal Silicon Potassium Water	scalar ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method	NONE >75 >20 >0.075	NONE 62 2 NEG		
Odor         scalar         *Visual         NORML         NORML            Emulsified Water         scalar         *Visual         >0.075         NEG            Sodium         ppm         ASTM D5185m         >51         0             Boron         ppm         ASTM D5185m         6         ▲ 134             Barium         ppm         ASTM D5185m         0         ▲ 25             Molybdenum         ppm         ASTM D5185m         0         ▲ 134             Manganese         ppm         ASTM D5185m         0         ▲ 134             Magnesium         ppm         ASTM D5185m         0         <11             Phosphorus         ppm         ASTM D5185m         145         3             Zinc         ppm         ASTM D5185m         1290         810             Sulfur         ppm         ASTM D5185m         1640         1613	Yellow Metal Silicon Potassium Water Silt	scalar ppm ppm scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual	NONE >75 >20 >0.075 NONE	NONE 62 2 NEG NONE		  
Emulsified Water         scalar         *Visual         >0.075         NEG             Sodium         ppm         ASTM D5185m         >51         0             Boron         ppm         ASTM D5185m         6         134             Barium         ppm         ASTM D5185m         0         <134             Molybdenum         ppm         ASTM D5185m         0         <1             Manganese         ppm         ASTM D5185m         0         <1             Magnesium         ppm         ASTM D5185m         145 <b>5</b> Phosphorus         ppm         ASTM D5185m         3570 <b>824</b> Zinc         ppm         ASTM D5185m         1290 <b>810</b> Sulfur         ppm         ASTM D5185m         1640         1613	Yellow Metal Silicon Potassium Water Silt Debris	scalar ppm ppm scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual	NONE >75 >20 >0.075 NONE NONE	NONE 62 2 NEG NONE NONE	   	  
Sodium         ppm         ASTM D5185m<>51         0             Boron         ppm         ASTM D5185m         6         ▲ 134             Barium         ppm         ASTM D5185m         0         ▲ 25             Molybdenum         ppm         ASTM D5185m         0         <11             Manganese         ppm         ASTM D5185m         0         <11             Magnesium         ppm         ASTM D5185m         145         ▲ 5             Calcium         ppm         ASTM D5185m         3570         ▲ 824             Phosphorus         ppm         ASTM D5185m         1290         810             Zinc         ppm         ASTM D5185m         1640         1613             Sulfur         ppm         ASTM D5185m         6431	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt	scalar ppm ppm scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	NONE >75 >20 >0.075 NONE NONE NONE	NONE 62 2 NEG NONE NONE NONE	   	    
Boron       ppm       ASTM D5185m       6       134           Barium       ppm       ASTM D5185m       0       25           Molybdenum       ppm       ASTM D5185m       0       <1           Manganese       ppm       ASTM D5185m       145       3           Magnesium       ppm       ASTM D5185m       145       A 5           Calcium       ppm       ASTM D5185m       3570       A 824           Phosphorus       ppm       ASTM D5185m       1290       810           Zinc       ppm       ASTM D5185m       1640       1613           Sulfur       ppm       ASTM D5185m       6431	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance	scalar ppm ppm scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	NONE >75 >20 >0.075 NONE NONE NONE NORML	NONE 62 2 NEG NONE NONE NORE	    	
Boron       ppm       ASTM D5185m       6       134           Barium       ppm       ASTM D5185m       0       25           Molybdenum       ppm       ASTM D5185m       0       <1           Manganese       ppm       ASTM D5185m       145       3           Magnesium       ppm       ASTM D5185m       145       A 5           Calcium       ppm       ASTM D5185m       3570       A 824           Phosphorus       ppm       ASTM D5185m       1290       810           Zinc       ppm       ASTM D5185m       1640       1613           Sulfur       ppm       ASTM D5185m       6431	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	scalar ppm ppm scalar scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	NONE >75 >20 >0.075 NONE NONE NONE NORML	NONE 62 2 NEG NONE NONE NONE NORML NORML	    	
Barium         ppm         ASTM D5185m         0         ▲ 25            Molybdenum         ppm         ASTM D5185m         0         <1              Manganese         ppm         ASTM D5185m         0         <1              Magnesium         ppm         ASTM D5185m         145         3             Calcium         ppm         ASTM D5185m         3570         ▲ 824             Phosphorus         ppm         ASTM D5185m         1290         810             Zinc         ppm         ASTM D5185m         1640         1613             Sulfur         ppm         ASTM D5185m         6431	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar ppm ppm scalar scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE >75 >20 >0.075 NONE NONE NONE NORML >0.075	NONE 62 2 NEG NONE NONE NONE NORML NORML	    	
Molybdenum         ppm         ASTM D5185m         0         <1	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar ppm scalar scalar scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE >75 >20 >0.075 NONE NONE NONE NORML >0.075	NONE 62 2 NEG NONE NONE NORE NORML NEG 0		
Manganese         ppm         ASTM D5185m         3             Magnesium         ppm         ASTM D5185m         145         ▲ 5             Calcium         ppm         ASTM D5185m         3570         ▲ 824             Phosphorus         ppm         ASTM D5185m         1290         810             Zinc         ppm         ASTM D5185m         1640         1613             Sulfur         ppm         ASTM D5185m          ▲ 6431	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar ppm scalar scalar scalar scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE >75 >20 >0.075 NONE NORME NORML >0.075 >51 6	NONE 62 2 NEG NONE NONE NORML NORML NEG 0		
Magnesium         ppm         ASTM D5185m         145         ▲ 5             Calcium         ppm         ASTM D5185m         3570         ▲ 824             Phosphorus         ppm         ASTM D5185m         1290         810             Zinc         ppm         ASTM D5185m         1640         1613             Sulfur         ppm         ASTM D5185m         1640         ▲ 6431	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar ppm scalar scalar scalar scalar scalar scalar scalar ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE >75 >20 >0.075 NONE NORME NORML >0.075 >51 6	NONE 62 2 NEG NONE NONE NORML NORML NEG 0 134		
Calcium         ppm         ASTM D5185m         3570         ▲ 824             Phosphorus         ppm         ASTM D5185m         1290         810             Zinc         ppm         ASTM D5185m         1640         1613             Sulfur         ppm         ASTM D5185m         1 640         46431	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar ppm ppm scalar scalar scalar scalar scalar scalar ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE >75 >20 >0.075 NONE NONE NORML >0.075 >51 6 0	NONE 62 2 NEG NONE NONE NORE NORML NEG 0 134 25 <1		
Phosphorus         ppm         ASTM D5185m         1290         810             Zinc         ppm         ASTM D5185m         1640         1613             Sulfur         ppm         ASTM D5185m         C         6431	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE >75 >20 >0.075 NONE NONE NORML NORML >0.075 >51 6 0	NONE 62 2 NEG NONE NONE NORML NORML NEG 0 134 25 <1 3		
Zinc         ppm         ASTM D5185m         1640         1613             Sulfur         ppm         ASTM D5185m         6431	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE >75 >20 >0.075 NONE NORME NORML >0.075 >51 6 0 0	NONE 62 2 NEG NONE NONE NORML NORML NEG 0 134 25 <1 3		
Sulfur         ppm         ASTM D5185m         46431	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >75 >20 >0.075 NONE NONE NORML >0.075 >51 6 0 0 0 145 3570	NONE 62 2 NEG NONE NONE NORML NORML NEG 0 134 25 <1 3 25 <1 3 3 8 24		
	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >75 >20 >0.075 NONE NONE NORML >0.075 >51 6 0 0 0 145 3570	NONE 62 2 NEG NONE NONE NORML NORML NEG 0 134 25 <1 3 5 824 810		
	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Malybdenum Manganese Magnesium Calcium	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >75 >20 NONE NONE NORML NORML >0.075 >51 6 0 0 145 3570 1290	NONE 62 2 NEG NONE NONE NORML NORML NEG 0 134 25 <1 3 5 \$ 824 810 1613		
Visc @ 40°C cSt ASTM D445 57.0 80.1	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >75 >20 NONE NONE NORML NORML >0.075 >51 6 0 0 145 3570 1290	NONE 62 2 NEG NONE NONE NORML NEG 0 134 25 <1 3 5 824 810 1613 (6431)		

Contact/Location: PHIL DAUGHERTY - JAMWIN



**JRE - STEPHENSON** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0169350 Recieved : 30 Jan 2024 245 YARDMASTER COURT Lab Number : 06075097 STEPHENSON, VA Diagnosed :01 Feb 2024 : 10857188 Diagnostician : Angela Borella US 22656-1761 Unique Number Test Package : CONST (Additional Tests: PQ) Contact: PHIL DAUGHERTY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pdaugherty@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (540)693-2588

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