

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

### Machine Id

### 1DW410PAEPFB06828 Component Transmission (Auto) Fluid

TES SYN 295 (--- 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) TES SYN 295. Please confirm.

Please specify the component make and model with your next sample.

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## **WEAR**

All component wear rates are normal.

### CONTAMINATION

There is no indication of any contamination in the fluid.

# **FLUID CONDITION**

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

TestUOMMethodLimitAinCurrentHistory1History2Sample NumberClient InfoJR023363JR0188912Sample DateClient Info1037541Oil AgehrsClient Info10375411Oil AgehrsClient Info00Oil ChangedClient InfoNot ChangdNot ChangdFilter ChangedClient InfoNot ChangdNot ChangdSample StatusClient InfoNot ChangdNot ChangdPQASTM D8184>503626IronpmASTM D8185>500NickelppmASTM D5185>500NickelppmASTM D5185>500SilverppmASTM D5185>500SilverppmASTM D5185>50<11QuaduumppmASTM D5185>50<11VanadiumppmASTM D5185>50<11VanadiumppmASTM D5185>50<11VanadiumppmASTM D5185>50<11VanadiumppmASTM D5185>20<11VanadiumppmASTM D5185>20<12VanadiumppmASTM D5185>20 <t< th=""><th>_</th><th></th><th></th><th></th><th>( )</th><th></th><th></th></t<>	_				( )		
Sample Number         Client Info         JR023368         JH018912            Sample Date         Client Info         1037         541            Machine Age         hrs         Client Info         1037         541            Oil Age         hrs         Client Info         0         0            Filter Age         hrs         Client Info         0         0            Filter Changed         Client Info         Not Changd             Filter Changed         Client Info         Not Changd             Sample Status         -         Not Changd         Not Changd            Filter Changed         ASTM D5185m         S0         0            Roronium         ppm         ASTM D5185m         S0         0            Nickel         ppm         ASTM D5185m         S0         0            Aluminum         ppm         ASTM D5185m         S0         -1         1            Aluminum         ppm         ASTM D5185m         S20         <1         1            Copper	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date         Client Info         08 Feb 2024         12 Oct 2023            Machine Age         hrs         Client Info         1037         541            Oil Age         hrs         Client Info         0         0            Filter Age         hrs         Client Info         Not Changd         Not Changd            Filter Changed         Client Info         Not Changd         Not Changd            Sample Status         Client Info         Not Changd         Not Changd            PQ         ASTM D8184         >50         36         266            Iron         ppm         ASTM D5185         >50         0         0            Nickel         ppm         ASTM D5185         >50         0         0            Silver         ppm         ASTM D5185         >50         <1         <1            Lead         ppm         ASTM D5185         >50         <1         <1            Vanadium         ppm         ASTM D5185         >50         <1         <1            Vanadium         ppm         ASTM	Sample Number		Client Info		JR0203563	JR0188912	
Machine Age         hrs         Client Info         1037         541            Filter Age         hrs         Client Info         0         0            Filter Age         ns         Client Info         Not Changd         Not Changd            Filter Changed         Client Info         Not Changd         Not Changd            Sample Status         Vision         Not Changd         Not Changd            PQ         ASTM D5185         >160         64         31            Chromium ppm         ASTM D5185         >5         0         0            Nickel         ppm         ASTM D5185         >50         0         0            Silver         ppm         ASTM D5185         >50         <1         <1            Quadum         ppm         ASTM D5185         >50         <1         <1            Silver         ppm         ASTM D5185         >50         <1         <1            Vanadium         ppm         ASTM D5185         >20         <1         <1            Vanadium         ppm	Sample Date		Client Info		08 Feb 2024	12 Oct 2023	
Oil Age         hrs         Client Info         1037         541            Filter Age         hrs         Client Info         Not Changd         Not Changd            Filter Changed         Client Info         Not Changd         Not Changd            Filter Changed         Client Info         Not Changd         Not Changd            Sample Status          NoTMDS185         S6         26            PQ         ASTM D5185m         >50         0         0            Nickel         ppm         ASTM D5185m         >50         0         0            Silver         ppm         ASTM D5185m         >50         0         0            Aluminum         ppm         ASTM D5185m         >50         <1         <1            Lead         ppm         ASTM D5185m         >50         <1         <1            Vanadium         ppm         ASTM D5185m         >225         2         2            Silicon         ppm         ASTM D5185m         >20         5         6            Silit	Machine Age	hrs	Client Info		1037	541	
Filter Age         hrs         Client Info         0         0            Oil Changed         Client Info         Not Changd         Not Changd            Sample Status         Client Info         Not Changd         Not Changd            PQ         ASTM D8184         >50         36         266            PQ         ASTM D5185m         >160         64         31            Chromium         ppm         ASTM D5185m         >5         0         0            Nickel         ppm         ASTM D5185m         >55         0         0            Silver         ppm         ASTM D5185m         >55         0         0            Aluminum         ppm         ASTM D5185m         >50         <1         1            Lead         ppm         ASTM D5185m         >225         2         2            Vanadum         ppm         ASTM D5185m         >200         0            Vanadum         ppm         ASTM D5185m         >20         5         6            Vanadum         ppm	Oil Age	hrs	Client Info		1037	541	
Oil Changed         Client Info         Not Changd         Not Changd            Filter Changed         Client Info         Not Changd         Not Changd            Sample Status         NORMAL         NORMAL         NORMAL            PQ         ASTM D8185         >160         64         31            Iron         ppm         ASTM D5185         >5         0         0            Nickel         ppm         ASTM D5185         >5         0         0            Silver         ppm         ASTM D5185         >50         <1         <1            Lead         ppm         ASTM D5185         >50         <1         <1            Vanadium         ppm         ASTM D5185         >225         2         2            Waite Metal         scalar         *Usual         NONE         NONE            Vanadium         ppm         ASTM D5185         >20         5         6            Vanadium         ppm         ASTM D5185         >20         <1         2            Vanadium         ppm	Filter Age	hrs	Client Info		0	0	
Filter Changed         Client Info         Not Changd         Not Changd         NORMAL         NORMAL            Sample Status         ASTM D8184         >50         36         26            Iron         ppm         ASTM D5185m         >160         64         31            Nickel         ppm         ASTM D5185m         >5         0         0            Nickel         ppm         ASTM D5185m         >5         0         0            Silver         ppm         ASTM D5185m         >50         c1         c1            Lead         ppm         ASTM D5185m         >50         c1         1            Copper         ppm         ASTM D5185m         >50         c1         1            Vanadium         ppm         ASTM D5185m         >20         c1         0         0            Valdemut         scalar         *Visual         NONE         NONE         NONE            Vandium         ppm         ASTM D5185m         >20         c1         2            Vandium Metal         scalar         *V	Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status         NORMAL         NORMAL         NORMAL            PQ         ASTM D8184         >50         36         26            Iron         ppm         ASTM D5185m         >160         64         31            Nickel         ppm         ASTM D5185m         >5         0         0            Nickel         ppm         ASTM D5185m         >5         0         0            Silver         ppm         ASTM D5185m         >50         <1         <1            Aluminum         ppm         ASTM D5185m         >50         <1         1            Lead         ppm         ASTM D5185m         >50         <1         1            Copper         ppm         ASTM D5185m         >20         <1         1            Vanadium         ppm         ASTM D5185m         >10         0         0            Vellow Metal         scalar         Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         <1         2	Filter Changed		Client Info		Not Changd	Not Changd	
PQ         ASTM D8184         >50         36         26            Iron         ppm         ASTM D5185m         >160         0            Chromium         ppm         ASTM D5185m         >5         0         0            Nickel         ppm         ASTM D5185m         >5         0         0            Titanium         ppm         ASTM D5185m         >50         <1         <1            Aluminum         ppm         ASTM D5185m         >50         <1         1            Lead         ppm         ASTM D5185m         >50         <1         1            Copper         ppm         ASTM D5185m         >20         <1         1            Vanadium         ppm         ASTM D5185m         >20         <1         0         0            Vanadium         ppm         ASTM D5185m         >20         <5         6            Vanadium         ppm         ASTM D5185m         >20         <1         2            Vanadium         ppm         ASTM D5185m         >20         <1	Sample Status				NORMAL	NORMAL	
Iron         ppm         ASTM D5185m         >160         64         31            Chromium         ppm         ASTM D5185m         >5         0         0            Nickel         ppm         ASTM D5185m         >5         0         0            Titanium         ppm         ASTM D5185m         >5         0         0            Silver         ppm         ASTM D5185m         >50         <1	PQ		ASTM D8184	>50	36	26	
Chromium         ppm         ASTM D5185m         >5         0         0            Nickel         ppm         ASTM D5185m         >5         0         0            Titanium         ppm         ASTM D5185m         >5         0         0            Silver         ppm         ASTM D5185m         >50         <1	Iron	maa	ASTM D5185m	>160	64	31	
Nickel         ppm         ASTM D5185m         >5         0         0            Titanium         ppm         ASTM D5185m         >5         0         0            Silver         ppm         ASTM D5185m         >50         <1         <1            Aluminum         ppm         ASTM D5185m         >50         <1         1            Lead         ppm         ASTM D5185m         >50         <1         1            Copper         ppm         ASTM D5185m         >22         2            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >20         5         6            Vanadium         ppm         ASTM D5185m         >20         <1         2            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D518m         >20 <t< th=""><th>Chromium</th><th>ppm</th><th>ASTM D5185m</th><th>&gt;5</th><th>0</th><th>0</th><th></th></t<>	Chromium	ppm	ASTM D5185m	>5	0	0	
Titanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         >5         0         0            Aluminum         ppm         ASTM D5185m         >50         <1         <1            Lead         ppm         ASTM D5185m         >50         <1         1            Copper         ppm         ASTM D5185m         >20         <1         1            Vanadium         ppm         ASTM D5185m         >20         <1         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >20         5         6            Yellow Metal         scalar         'Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         <1         2            Sutar         scalar         'Visual         NONE         NONE             Sutar         scalar         'Visual <td< th=""><th>Nickel</th><th>mag</th><th>ASTM D5185m</th><th>&gt;5</th><th>0</th><th>0</th><th></th></td<>	Nickel	mag	ASTM D5185m	>5	0	0	
Silver         ppm         ASTM D5185m         >5         0         0            Aluminum         ppm         ASTM D5185m         >50         <1         <1            Lead         ppm         ASTM D5185m         >50         <1         1            Copper         ppm         ASTM D5185m         >225         2         2            Tin         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m<>20         5         6            Silit         scalar         *Visual         NONE         NONE         NONE            Solit         scalar         *Visual         NONE         NONE         NORE            Sodium         ppm         ASTM D5185m         0	Titanium	maa	ASTM D5185m		0	0	
Aluminum         ppm         ASTM D5185m         >50         <1	Silver	ppm	ASTM D5185m	>5	0	0	
Lead         ppm         ASTM D5185m         >50         <1	Aluminum	ppm	ASTM D5185m	>50	<1	<1	
Copper         ppm         ASTM D5185m         >225         2         2            Tin         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         <1         2            Vater         WC Method         >0.1         NEG         NEG            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Appearance         scalar         *Visual         NORML         NORML         NORML            Odor         scalar         *Visual         NORML         NORML         NORML            Sodium         ppm         ASTM D5185m <td< th=""><th>Lead</th><th>ppm</th><th>ASTM D5185m</th><th>&gt;50</th><th>&lt;1</th><th>1</th><th></th></td<>	Lead	ppm	ASTM D5185m	>50	<1	1	
Tin         ppm         ASTM D5185m         >10         0         0	Copper	maa	ASTM D5185m	>225	2	2	
VanadiumppmASTM D5185m000White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>20<12PotassiumppmASTM D5185m>20<12WaterWC Method>0.1NEGNEGSilitscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNORMNORMLNORMLAppearancescalar*VisualNORMNORMLNORMLGorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m23BoronppmASTM D5185m010MolybdenumppmASTM D5185m0<1ManganeseppmASTM D5185m130PhosphorusppmASTM D5185m100161126ManganesiumppmASTM D5185m0300PhosphorusppmASTM D5185m0300SulfurppmASTM D5185m1500 <td< th=""><th>Tin</th><th>ppm</th><th>ASTM D5185m</th><th>&gt;10</th><th>0</th><th>0</th><th></th></td<>	Tin	ppm	ASTM D5185m	>10	0	0	
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>20<12PotassiumppmASTM D5185m>20<12WaterWC Method>0.1NEGNEGSilitscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m23BoronppmASTM D5185m010MolybdenumppmASTM D5185m0<1MagnesiumppmASTM D5185m130MagnesiumppmASTM D5185m100161126PhosphorusppmASTM D5185m0240224ZincppmASTM D5185m0300SulfurppmASTM D5185m1500482523	Vanadium	ppm	ASTM D5185m		0	0	
Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         5         6            Potassium         ppm         ASTM D5185m         >20         <1         2            Water         WC Method         >0.1         NEG         NEG            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NONE         NONE         NONE            Appearance         scalar         *Visual         NORML         NORML         NORML            Odor         scalar         *Visual         NORML         NORML         NORML            Boron         ppm         ASTM D5185m         0         1         0            Molybdenum         ppm         ASTM D5185m         0         1         0            Magnesium         ppm         AST	White Metal	scalar	*Visual	NONE	NONE	NONE	
SiliconppmASTM D5185m>2056PotassiumppmASTM D5185m>20<1							
SiliconppmASTM D5185m>2056PotassiumppmASTM D5185m>20<12WaterWC Method>0.1NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m23BoronppmASTM D5185m010MalganeseppmASTM D5185m0<10ManganeseppmASTM D5185m100161126PhosphorusppmASTM D5185m100161126PhosphorusppmASTM D5185m0300SulfurppmASTM D5185m1500482523	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
PotassiumppmASTM D5185m>20<1	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
WaterWC Method >0.1NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m23BoronppmASTM D5185m010MalganeseppmASTM D5185m0<10MagnesiumppmASTM D5185m100161126PhosphorusppmASTM D5185m02402244ZincppmASTM D5185m0300SulfurppmASTM D5185m1500482523	Yellow Metal Silicon	scalar ppm	*Visual ASTM D5185m	NONE >20	NONE 5	NONE 6	
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m85115129BoronppmASTM D5185m010MolybdenumppmASTM D5185m0<10MagnesiumppmASTM D5185m100161126PhosphorusppmASTM D5185m0300ZincppmASTM D5185m0300SulfurppmASTM D5185m1500482523	Yellow Metal Silicon Potassium	scalar ppm ppm	*Visual ASTM D5185m ASTM D5185m	NONE >20 >20	NONE 5 <1	NONE 6 2	
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m23BoronppmASTM D5185m010MolybdenumppmASTM D5185m010ManganeseppmASTM D5185m130MagnesiumppmASTM D5185m100161126PhosphorusppmASTM D5185m0300ZincppmASTM D5185m0300SulfurppmASTM D5185m1500482523	Yellow Metal Silicon Potassium Water	scalar ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method	>20 >20 >20 >0.1	NONE 5 <1 NEG	NONE 6 2 NEG	 
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m23BoronppmASTM D5185m010BariumppmASTM D5185m010MolybdenumppmASTM D5185m0<1<1MagnesiumppmASTM D5185m100<11126PhosphorusppmASTM D5185m1001611266ZincppmASTM D5185m0300SulfurppmASTM D5185m1500482523	Yellow Metal Silicon Potassium Water Silt	scalar ppm ppm scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual	>20 >20 >0.1 NONE	NONE 5 <1 NEG NONE	0 6 2 NEG NONE	  
Appearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m23BoronppmASTM D5185m85115129BariumppmASTM D5185m0<10MolybdenumppmASTM D5185m0<10MagnesiumppmASTM D5185m10<161126MagnesiumppmASTM D5185m100161126PhosphorusppmASTM D5185m0300ZincppmASTM D5185m0300SulfurppmASTM D5185m1500482523	Yellow Metal Silicon Potassium Water Silt Debris	scalar ppm ppm scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual	<ul> <li>&gt;20</li> <li>&gt;20</li> <li>&gt;0.1</li> <li>NONE</li> <li>NONE</li> </ul>	NONE 5 <1 NEG NONE NONE	NONE 6 2 NEG NONE NONE	  
Odorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m23BoronppmASTM D5185m85115129BariumppmASTM D5185m010MolybdenumppmASTM D5185m0<10ManganeseppmASTM D5185m0<1<1MagnesiumppmASTM D5185m100161126PhosphorusppmASTM D5185m100300ZincppmASTM D5185m0300SulfurppmASTM D5185m1500482523	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	>20 >20 >0.1 NONE NONE NONE	NONE 5 <1 NEG NONE NONE NONE	NONE 6 2 NEG NONE NONE NONE	    
Emulsified Water         scalar         *Visual         >0.1         NEG         NEG            Sodium         ppm         ASTM D5185m         2         3            Boron         ppm         ASTM D5185m         85         115         129            Barium         ppm         ASTM D5185m         0         1         0            Molybdenum         ppm         ASTM D5185m         0         11         0            Manganese         ppm         ASTM D5185m         0         <1         0            Magnesium         ppm         ASTM D5185m         0         <1         0            Phosphorus         ppm         ASTM D5185m         100         161         126            Phosphorus         ppm         ASTM D5185m         100         2244            Zinc         ppm         ASTM D5185m         0         30         0            Sulfur         ppm         ASTM D5185m         1500         482         523	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance	scalar ppm ppm scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >20 >0.1 NONE NONE NORE	NONE 5 <1 NEG NONE NONE NONE NORE	NONE 6 2 NEG NONE NONE NONE NORML	    
Sodium         ppm         ASTM D5185m         2         3            Boron         ppm         ASTM D5185m         85         115         129            Barium         ppm         ASTM D5185m         0         1         0            Molybdenum         ppm         ASTM D5185m         0         <1         0            Manganese         ppm         ASTM D5185m         0         <1         <1            Magnesium         ppm         ASTM D5185m         0         <1         <1            Calcium         ppm         ASTM D5185m         100         161         126            Phosphorus         ppm         ASTM D5185m         100         161         126            Zinc         ppm         ASTM D5185m         0         30         0            Sulfur         ppm         ASTM D5185m         1500         482         523	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	>20 >20 >0.1 NONE NONE NORML	NONE 5 <1 NEG NONE NONE NONE NORML NORML	NONE 6 2 NEG NONE NONE NONE NORML NORML	        
Boron         ppm         ASTM D5185m         85         115         129            Barium         ppm         ASTM D5185m         0         1         0            Molybdenum         ppm         ASTM D5185m         0         1         0            Manganese         ppm         ASTM D5185m         0         <1         0            Magnesium         ppm         ASTM D5185m         0         <1         <1            Magnesium         ppm         ASTM D5185m         1         3         0            Calcium         ppm         ASTM D5185m         100         161         126            Phosphorus         ppm         ASTM D5185m         200         240         224            Zinc         ppm         ASTM D5185m         0         30         0            Sulfur         ppm         ASTM D5185m         1500         482         523	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar ppm scalar scalar scalar scalar scalar scalar	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	NONE           >20           >0.1           NONE           NONE           NORML           NORML           >0.1	NONE 5 <1 NEG NONE NONE NORE NORML NEG	NONE 6 2 NEG NONE NONE NONE NORML NEG	
Barium         ppm         ASTM D5185m         0         1         0            Molybdenum         ppm         ASTM D5185m         0         <1         0            Manganese         ppm         ASTM D5185m         0         <1         0            Magnesium         ppm         ASTM D5185m         0         <1         <1            Magnesium         ppm         ASTM D5185m         10         <1         126            Calcium         ppm         ASTM D5185m         100         161         126            Phosphorus         ppm         ASTM D5185m         200         240         224            Zinc         ppm         ASTM D5185m         0         30         0            Sulfur         ppm         ASTM D5185m         1500         482         523	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 >20 >0.1 NONE NONE NONE NORML >0.1	NONE 5 <1 NEG NONE NONE NONE NORML NEG	NONE 6 2 NEG NONE NONE NORE NORML NEG 3	
Molybdenum         ppm         ASTM D5185m         0         <1	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 ASTM D5185m ASTM D5185m	NONE >20 >0.1 NONE NONE NORML NORML >0.1	NONE 5 <1 NEG NONE NONE NORML NORML NEG 2 115	NONE 6 2 NEG NONE NONE NORML NORML NEG 3 129	
Manganese         ppm         ASTM D5185m         0         <1	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar 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	NONE >20 >0.1 NONE NONE NORML NORML >0.1	NONE 5 <1 NEG NONE NONE NORML NORML NEG 2 115	NONE 6 2 NEG NONE NONE NORML NORML NEG 3 129 0	
Magnesium         ppm         ASTM D5185m         0         C1         C1         C1           Magnesium         ppm         ASTM D5185m         1         3         0            Calcium         ppm         ASTM D5185m         100         161         126            Phosphorus         ppm         ASTM D5185m         200         240         224            Zinc         ppm         ASTM D5185m         0         30         0            Sulfur         ppm         ASTM D5185m         1500         482         523	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	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 >20 >0.1 NONE NONE NORML NORML >0.1 85 0	NONE 5 <1 NEG NONE NONE NORML NORML NEG 2 115 1	NONE 6 2 NEG NONE NONE NORML NORML NEG 3 129 0	
Magnesian         ppm         Active Difference         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c <thc> <thc< <="" th=""><th>Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese</th><th>scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm</th><th>*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m</th><th>NONE &gt;20 &gt;20 NONE NONE NORML NORML &gt;0.1 85 0 0</th><th>NONE 5    5   &lt;1   NEG   NONE   NONE   NORML   NORML   NEG   2   115   1   &lt;1   &lt;1</th><th>NONE 6 2 NEG NONE NONE NORML NORML NEG 3 129 0 0 0</th><th></th></thc<></thc>	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 >20 >20 NONE NONE NORML NORML >0.1 85 0 0	NONE 5    5   <1   NEG   NONE   NONE   NORML   NORML   NEG   2   115   1   <1   <1	NONE 6 2 NEG NONE NONE NORML NORML NEG 3 129 0 0 0	
Phosphorus         ppm         ASTM D5185m         100         101         120         112           Phosphorus         ppm         ASTM D5185m         200         240         224            Zinc         ppm         ASTM D5185m         0         30         0            Sulfur         ppm         ASTM D5185m         1500         482         523	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	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >20 >0.1 NONE NONE NORML NORML >0.1 85 0 0 0 0	NONE 5    5   <1   NEG   NONE   NORML   NORML   NEG   2   115   1   <1   <1   3	NONE 6 2 NEG NONE NONE NORML NORML NEG 3 129 0 0 0 <1 0	
Zinc         ppm         ASTM D5185m         0         30         0            Sulfur         ppm         ASTM D5185m         1500         482         523	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	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >20 >0.1 NONE NONE NORML >0.1 85 0 0 0 0 1 100	NONE 5 <1 NEG NONE NONE NORML NORML NEG 2 115 1 <1 <1 <1 <1 3 161	NONE 6 2 NEG NONE NONE NORML NORML NEG 3 129 0 0 0 <1 0 0 126	
Sulfur         ppm         ASTM D5185m         1500         482         523	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >20 >0.1 NONE NONE NONE NORML >0.1 85 0 0 0 0 1 100 200	NONE 5 <1 NEG NONE NONE NORML NORML NEG 2 115 1 <1 <1 <1 <1 3 161 240	NONE 6 2 NEG NONE NONE NORML NORML NEG 3 129 0 0 <1 0 <1 0 126 224	
	Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	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 ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >20 >0.1 NONE NONE NORML NORML >0.1 85 0 0 0 0 0 1 100 200 0	NONE 5 <1 NEG NONE NONE NORML NORML NEG 2 115 1 <1 <1 <1 <1 <1 <1 3 161 240 30	NONE 6 2 NEG NONE NONE NORML NORML NEG 3 129 0 0 0 ( 129 0 0 129 0 0 2 2 2 4 0 0	
$V_{\rm ISC}(a) 40^{\circ}{\rm C}$ cSt ASIM 0445 370 V 365 V 360	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 ppm ppm	*Visual ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE >20 >0.1 NONE NONE NORML >0.1 85 0 0 0 0 1 100 200 0 1500	NONE 5 <1 NEG NONE NONE NORML NORML NEG 2 115 1 <1 <1 <1 <1 <1 <1 3 161 240 30 482	NONE 6 2 NEG NONE NONE NORML NORML NEG 3 129 0 0 <129 0 0 <129 0 126 224 0 0	

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Submitted By: Mike Young - CHARLOTTE SHOP







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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - CHARLOTTE** : JR0203563 Received 9550 STATESVILLE ROAD : 14 Feb 2024 Lab Number : 06089032 : 15 Feb 2024 CHARLOTTE, NC Tested Unique Number : 10876477 : 15 Feb 2024 - Wes Davis US 28269 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: CHARLOTTE SHOP To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198

Certificate L2367

Laboratory

Sample No.

Submitted By: Mike Young - CHARLOTTE SHOP