

Machine Id

JOHN DEERE 624 P 1DW624PAANLZ15749

Hydraulic System

JOHN DEERE HYDRAU (--- GAL)

	RECO	MMEN	JDATION	
--	------	------	----------------	--

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

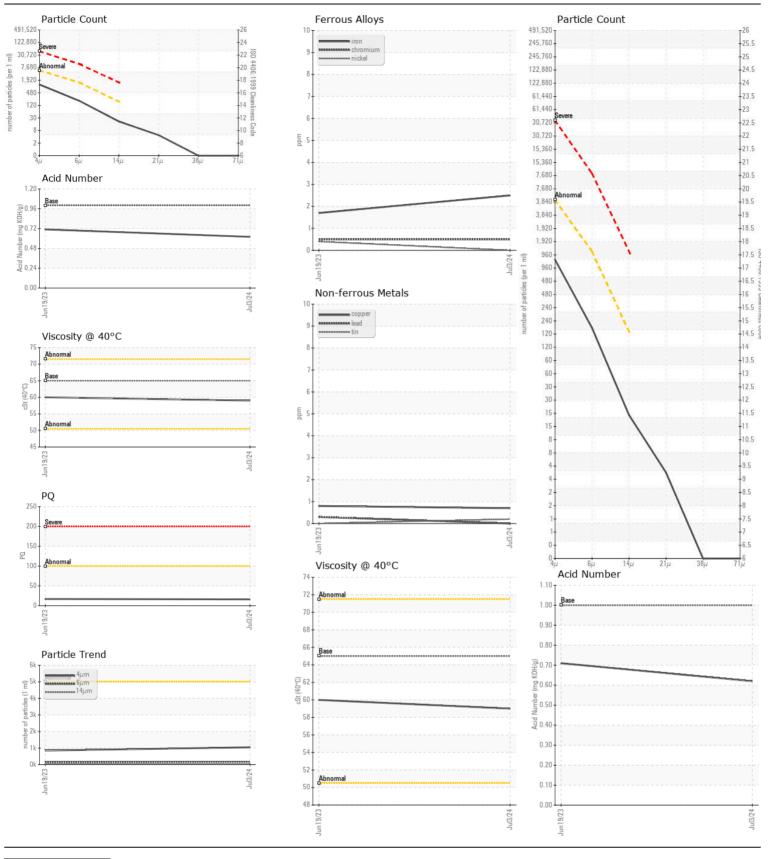
CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

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

TestUOMMethodLimit/AnCurrentHistory1History2Sample NumberClient Info03 Julo244JP0164730Machine AgehrsClient Info03 Julo244Julo224Machine AgehrsClient Info952442Oil AgehrsClient Info952442Filter AgehrsClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusNot ChangdPQASTM D5185>2022ChromiumppmASTM D5185>10c1NickelppmASTM D5185>10c1NickelppmASTM D5185>10c1AluminumppmASTM D5185>10c1AgeppmASTM D5185>10c1CopperppmASTM D5185>10c1VanadiumppmASTM D5185>2021ValotppmASTM D5185>10c1<ValotppmASTM D5185>10c1<SilicenppmASTM D5185>2021Partices >14µmASTM D5185>2021Partices >14µmASTM D5185							
Sample Date Client Info 952 442 Machine Age hrs Client Info 952 442 Oil Age hrs Client Info 952 442 Oil Changed Client Info 952 442 Oil Changed Client Info Not Changd Not Changd Sample Status Not Changd Not Changd Sample Status Not Changd Not Changd Sample Status Not Changd Not Changd Chromium ppm ASTM D5185m >10 <1 Nickel ppm ASTM D5185m >10 <1 Aluminum ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >10 <1 Vellow Metal scalar	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Oil Age Filter Age hrs Client Info 952 442 Filter Age Filter Age hrs Client Info 952 442 Oil Age Filter Changed Client Info Not Changd Not Changd Not Changd Not Changd Sample Status Client Info Not Changd Not Changd Not Changd Not Changd PQ ASTM D5185 >20 2 2 Chromium ppm ASTM D5185 >10 0 Nickel ppm ASTM D5185 0 0 Aluminum ppm ASTM D5185 0 0 Aluminum ppm ASTM D5185 10 1 Vanadium ppm ASTM D5185 10 1 Vanadium ppm ASTM D5185 0 0 Vanadium ppm ASTM D5185 >20 2 1 Vellow Metal scalar "visual <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>JR0224484</th> <th>JR0164730</th> <th></th>	Sample Number		Client Info		JR0224484	JR0164730	
Oil Age hrs Client Info 952 442 Filter Age hrs Client Info Not Changd Not Changd Oil Changed Client Info Not Changd Not Changd Not Changd Sample Status Normal Normal Normal PQ ASTM D5185m >20 2 2 Iron ppm ASTM D5185m >10 <1 Nickel ppm ASTM D5185m >10 0 0 Silver ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Veltow Metal scalar *Visual NONE NONE NONE Veltow Metal scalar *Visual NONE NONE NONE	Sample Date		Client Info		03 Jul 2024	19 Jun 2023	
Filter Age hrs Client Info 952 442 Oil Changed Client Info Not Changd Not Changd Sample Status Client Info Not Changd Not Changd Sample Status Not Mole Mathematical Status Not Changd Not Changd PQ ASTM D5185m >20 2 2 Chromium ppm ASTM D5185m >10 Nickel ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m 0 0 Copper ppm ASTM D5185m 10 <-1 Copper ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 Vellow Metal scalar *Visual NONE NONE NONE Vellow Metal scalar *Visual NONE NONE -	Machine Age	hrs	Client Info		952	442	
Oil Changed Client Info Not Changd Not Changd	Oil Age	hrs	Client Info		952	442	
Filter Changed Sample Status Client Info Not Changd NORMAL Not Changd NORMAL NORMAL PQ ASTM D8184 16 17 Iron ppm ASTM D5185m >20 2 2 Nickel ppm ASTM D5185m >10 <1 <1 Nickel ppm ASTM D5185m >10 0 <1 Silver ppm ASTM D5185m >10 0 0 Silver ppm ASTM D5185m >10 <1 <1 Copper pm ASTM D5185m >10 <1 0 Vanadium ppm ASTM D5185m >10 <1 0 Vellow Metal scalar *Visual NONE NONE NONE Vellow Metal scalar *Visual NONE NONE NONE Vellow Metal scalar *Visual NOR NOR	Filter Age	hrs	Client Info		952	442	
Sample Status NORMAL NORMAL NORMAL PQ ASTM D8184 16 17 Iron ppm ASTM D8185 >20 2 2 Nickel ppm ASTM D5185m >10 0 <1 Nickel ppm ASTM D5185m >10 0 0 Aluminum ppm ASTM D5185m >10 0 <1 Aluminum ppm ASTM D5185m >10 0 <1 Aluminum ppm ASTM D5185m >10 0 <1 Aluminum ppm ASTM D5185m >10 0 0 Vanadium ppm ASTM D5185m >10 0 0 Vanadium ppm ASTM D5185m >20 2 1 Velicov Metal scalar 'Visual NONE NONE NONE	Oil Changed		Client Info		Not Changd	Not Changd	
PQ ASTM D8184 16 17	Filter Changed		Client Info		Not Changd	Not Changd	
Iron ppm ASTM D5185m >20 2 2 Chromium ppm ASTM D5185m >10 <1 <1 Nickel ppm ASTM D5185m >10 0 <1 Titanium ppm ASTM D5185m >10 0 0 Aluminum ppm ASTM D5185m >10 0 <1 Lead ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 0 Vanadium ppm ASTM D5185m >10 0 0 Vanadium ppm ASTM D5185m >20 2 1 Vanadium ppm ASTM D5185m >20 4 2 Vanadium ppm ASTM D5185m >20 4 2 Valow Metal scalar 'Visual NONE	Sample Status				NORMAL	NORMAL	
Iron ppm ASTM D5185m >20 2 2 Chromium ppm ASTM D5185m >10 <1 <1 Nickel ppm ASTM D5185m >10 0 <1 Titanium ppm ASTM D5185m >10 0 0 Aluminum ppm ASTM D5185m >10 0 <1 Lead ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 0 Vanadium ppm ASTM D5185m >10 0 0 Vanadium ppm ASTM D5185m >20 2 1 Vanadium ppm ASTM D5185m >20 4 2 Vanadium ppm ASTM D5185m >20 4 2 Valow Metal scalar 'Visual NONE						·	
Chromium ppm ASTM D5185m >10 <1					-		
Nickel ppm ASTM D5185m >10 0 <11					_		
Titanium ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m >10 <1 <1 Aluminum ppm ASTM D5185m >10 0 <1 Lead ppm ASTM D5185m >10 <1 <1 Copper ppm ASTM D5185m >10 <1 0 Vanadium ppm ASTM D5185m >10 <1 0 Vanadium ppm ASTM D5185m >0 0 Vanadium ppm ASTM D5185m >20 2 1 Vellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >20 2 1 Vater WC Method >0.1 NEG Particles >4µm ASTM D7647 >100 176 156							
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >10 <1 <1 Lead ppm ASTM D5185m >10 0 <1 Copper ppm ASTM D5185m >75 <1 <1 Vanadium ppm ASTM D5185m >10 0 0 Vanadium ppm ASTM D5185m >10 <1 0 Vanadium ppm ASTM D5185m >10 <1 0 Vanadium ppm ASTM D5185m >20 2 1 Yellow Metal scalar *Visual NONE NONE NONE Vater WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >100 176 156 Particles >71µm ASTM D7647 >40 <th></th> <th></th> <th></th> <th>>10</th> <th>-</th> <th></th> <th></th>				>10	-		
Aluminum ppm ASTM D5185m >10 <1					-		
Lead ppm ASTM D5185m >10 0 <1				1.5	-		
Copper ppm ASTM D5185m >75 <1							
Tin ppm ASTM D5185m >10 <1					-		
Vanadium ppm ASTM D5185m 0 0 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >20 4 2 Potassium ppm ASTM D5185m >20 4 2 Water WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >1300 176 156 Particles >51µm ASTM D7647 >10 0 0 Particles >38µm ASTM D7647 >10 0 0 Particles >38µm ASTM D7647 >30 0 Oil Cleanliness ISO 4406 (c) >19/17/14 17/15/11 17/14/11 Silt scalar *Visual NONE NONE NONE <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
White Metal scalar *Visual NONE NONE NONE ···· Yellow Metal scalar *Visual NONE NONE NONE ···· Silicon ppm ASTM D5185m >20 4 2 ···· Potassium ppm ASTM D5185m >20 4 2 ···· Paticles >4µm ASTM D7647 >5000 1049 850 ···· Particles >6µm ASTM D7647 >100 176 156 ···· Particles >14µm ASTM D7647 >100 0 ···· ···· Particles >38µm ASTM D7647 >10 0 0 ···· Particles >38µm ASTM D7647 >3 0 0 ···· Particles >38µm ASTM D7647 >3 0 0 ···· Silt scalar *Visual NONE NONE ···· Sand/Dirt scalar *Visual NOR NORE ···· Aspeara				>10			
Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >20 4 2 Potassium ppm ASTM D5185m >20 4 2 Water WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >5000 1049 8500 Particles >4µm ASTM D7647 >160 18 19 Particles >3µm ASTM D7647 >40 4 Particles >7µm ASTM D7647 >40 0 0 Particles >7µm ASTM D7647 >3 0 0 Oil Cleanliness Scalar *Visual NONE NONE NONE Silt scalar *Visual NOR NORM NORML Appearance scalar *Visual NORM NORML NORML					-		
Silicon ppm ASTM D5185m >20 2 1 Potassium ppm ASTM D5185m >20 4 2 Water WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >5000 1049 850 Particles >6µm ASTM D7647 >1300 176 156 Particles >6µm ASTM D7647 >160 18 19 Particles >3µm ASTM D7647 >40 4 4 Particles >3µm ASTM D7647 >10 0 0 Particles >3µm ASTM D7647 >10 0 0 Particles >71µm ASTM D7647 >10 0 0 Solt scalar *Visual NONE NONE NONE				-			
Potassium ppm ASTM D5185m >20 4 2 Water WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >5000 1049 850 Particles >6µm ASTM D7647 >100 156 Particles >6µm ASTM D7647 >100 18 19 Particles >21µm ASTM D7647 >10 0 0 Particles >38µm ASTM D7647 >10 0 0 Particles >71µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 3 0 0 Silt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORM NORML NORML Appearance scalar <td< th=""><th>Yellow Metal</th><th>scalar</th><th>*Visual</th><th>NONE</th><th>NONE</th><th>NONE</th><th></th></td<>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium ppm ASTM D5185m >20 4 2 Water WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >5000 1049 850 Particles >6µm ASTM D7647 >100 156 Particles >6µm ASTM D7647 >100 18 19 Particles >21µm ASTM D7647 >10 0 0 Particles >38µm ASTM D7647 >10 0 0 Particles >71µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 3 0 0 Silt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORM NORML NORML Appearance scalar <td< th=""><th>Silicon</th><th>nom</th><th>AGTM D5185m</th><th>> 20</th><th>2</th><th>1</th><th></th></td<>	Silicon	nom	AGTM D5185m	> 20	2	1	
Water WC Method >0.1 NEG NEG Particles >4µm ASTM D7647 >5000 1049 8500 Particles >6µm ASTM D7647 >1300 176 156 Particles >14µm ASTM D7647 >160 18 19 Particles >21µm ASTM D7647 >40 4 Particles >38µm ASTM D7647 >10 0 0 Particles >1µm ASTM D7647 >3 0 0 Particles >1µm ASTM D7647 >3 0 0 Particles >1µm ASTM D7647 >3 0 0 Oil Cleanliness scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NORM NORML Appearance scalar *Visual NORM NORML NORML Goto </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Particles >4μm ASTM D7647 >5000 1049 850 Particles >6μm ASTM D7647 >1300 176 156 Particles >14μm ASTM D7647 >160 18 19 Particles >21μm ASTM D7647 >40 4 Particles >38µm ASTM D7647 >40 4 Particles >1µm ASTM D7647 >3 0 0 Particles >1µm ASTM D7647 >3 0 0 Particles >1µm ASTM D7647 >3 0 0 Oil Cleanliness Scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NORML Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORM NORML NORML		ρριι			-		
Particles >6μm ASTM D7647 >1300 176 156 Particles >14μm ASTM D7647 >160 18 19 Particles >21μm ASTM D7647 >40 4 Particles >21μm ASTM D7647 >10 0 0 Particles >38µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 0 Oil Cleanliness Scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORM NORML NORML Appearance scalar *Visual NORM NORML Gdor scalar *Visual NORM NORML							
Particles >14μm ASTM D7647 >160 18 19 Particles >21μm ASTM D7647 >40 4 Particles >38μm ASTM D7647 >10 0 0 Particles >71μm ASTM D7647 >3 0 0 Particles >71μm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 17/15/11 17/14/11 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NORML NORML Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Boron ppm ASTM D5185m 0 0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Particles >21µm ASTM D7647 >40 4 4 Particles >38µm ASTM D7647 >10 0 0 Particles >71µm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 17/15/11 17/14/11 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORM NORML NORML Gdor scalar *Visual NORM NORML NORML Gdor scalar *Visual NORM NORML Gdor scalar *Visual >0.1 NEG NEG Boron ppm ASTM D5185m I 0 0 <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>					-		
Particles >38μm ASTM D7647 >10 0 0 Particles >71μm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 17/15/11 17/14/11 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 Odor scalar *Visual NORML NORML NORML Godor scalar *Visual >0.1 NEG NORML Boron ppm ASTM D5185m 3 <1 Malganese ppm ASTM D5185m <							
Particles >71µm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 17/15/11 17/14/11 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORM NORML NORML Odor scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG Sodium ppm ASTM D5185m 0 0 Boron ppm AST					-		
Oil CleanlinessISO 4406 (c)\$1917/14177/15/11117/14/11Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m5000BoronppmASTM D5185m000BariumppmASTM D5185m00MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m225PhosphorusppmASTM D5185m727712671ZincppmASTM D5185m10020391990Acid Number (AN)mg KH/gASTM D81851.00.620.71					-		
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m3<1BoronppmASTM D5185m00BariumppmASTM D5185m01MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m25PhosphorusppmASTM D5185m727712671ZincppmASTM D5185m150020391990Acid Number (AN)mg KH/gASTM D81851.00.620.71					-	÷	
Debrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m3<1BoronppmASTM D5185m00BariumppmASTM D5185m01MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m25MagnesiumppmASTM D5185m727712671PhosphorusppmASTM D5185m900885917ZincppmASTM D5185m1.00.620.71		scalar					
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m3<1BoronppmASTM D5185m00BariumppmASTM D5185m01MolybdenumppmASTM D5185m01MagnaeseppmASTM D5185m00AgresiumppmASTM D5185m225CalciumppmASTM D5185m727712671PhosphorusppmASTM D5185m900885917ZincppmASTM D5185m1.00.620.71					-		
Appearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m3<1BoronppmASTM D5185m00BariumppmASTM D5185m01MolybdenumppmASTM D5185m01MagnaeseppmASTM D5185m00MagnesiumppmASTM D5185m25CalciumppmASTM D5185m727712671PhosphorusppmASTM D5185m900885917SulfurppmASTM D5185m1.00.620.71							
Odorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m3<1							
Emulsified Water scalar *Visual >0.1 NEG NEG Sodium ppm ASTM D5185m 3 <1 Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 0 2 Molybdenum ppm ASTM D5185m 0 1 Maganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 2 5 Calcium ppm ASTM D5185m 727 712 671 Phosphorus ppm ASTM D5185m 900 885 917 Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.62 0.71							
Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 0 2 Molybdenum ppm ASTM D5185m 0 1 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 2 5 Calcium ppm ASTM D5185m 87 95 108 Phosphorus ppm ASTM D5185m 727 712 671 Zinc ppm ASTM D5185m 900 885 917 Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg K0H/g ASTM D8045 1.0 0.62 0.71	Emulsified Water	scalar		>0.1	NEG	NEG	
Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 0 2 Molybdenum ppm ASTM D5185m 0 1 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 2 5 Calcium ppm ASTM D5185m 87 95 108 Phosphorus ppm ASTM D5185m 727 712 671 Zinc ppm ASTM D5185m 900 885 917 Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg K0H/g ASTM D8045 1.0 0.62 0.71							
Barium ppm ASTM D5185m 0 2 Molybdenum ppm ASTM D5185m 0 1 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0 0 Calcium ppm ASTM D5185m 87 95 108 Phosphorus ppm ASTM D5185m 727 712 671 Zinc ppm ASTM D5185m 900 885 917 Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg K0H/g ASTM D8045 1.0 0.62 0.71	Sodium	ppm	ASTM D5185m		3	<1	
Molybdenum ppm ASTM D5185m 0 1 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 2 5 Calcium ppm ASTM D5185m 87 95 108 Phosphorus ppm ASTM D5185m 727 712 671 Zinc ppm ASTM D5185m 900 885 917 Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.62 0.71	Boron	ppm	ASTM D5185m		0	0	
Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 2 5 Calcium ppm ASTM D5185m 87 95 108 Phosphorus ppm ASTM D5185m 727 712 671 Zinc ppm ASTM D5185m 900 885 917 Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.62 0.71		ppm					
Magnesium ppm ASTM D5185m 2 5 Calcium ppm ASTM D5185m 87 95 108 Phosphorus ppm ASTM D5185m 727 712 671 Zinc ppm ASTM D5185m 900 885 917 Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.62 0.71	Molybdenum	ppm	ASTM D5185m			1	
Calcium ppm ASTM D5185m 87 95 108 Phosphorus ppm ASTM D5185m 727 712 671 Zinc ppm ASTM D5185m 900 885 917 Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.62 0.71	-	ppm					
Phosphorus ppm ASTM D5185m 727 712 671 Zinc ppm ASTM D5185m 900 885 917 Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.62 0.71	0	ppm					
Zinc ppm ASTM D5185m 900 885 917 Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.62 0.71		ppm					
Sulfur ppm ASTM D5185m 1500 2039 1990 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.62 0.71	Phosphorus	ppm		727	712	671	
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.62 0.71		ppm	ASTM D5185m		885		
() 0 0			ASTM D5185m	1500	2039	1990	
Visc @ 40°C cSt ASTM D445 65 59.0 60.0	()	· ·					
	Visc @ 40°C	cSt	ASTM D445	65	59.0	60.0	



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Sample No. : JR0224484 11047 LEADBETTER RD Received : 10 Jul 2024 È Lab Number : 06232188 ASHLAND, VA Tested : 11 Jul 2024 : 11 Jul 2024 - Wes Davis US 23005 Unique Number : 11115681 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2