

# [05W46143]

## JOHN DEERE 410L 1T0410LXCNF420511

#### Hydraulic System

# JOHN DEERE HYDRAU (10 GAL)

#### RECOMMENDATION

Resample at the next service interval to monitor.

#### WEAR

All component wear rates are normal.

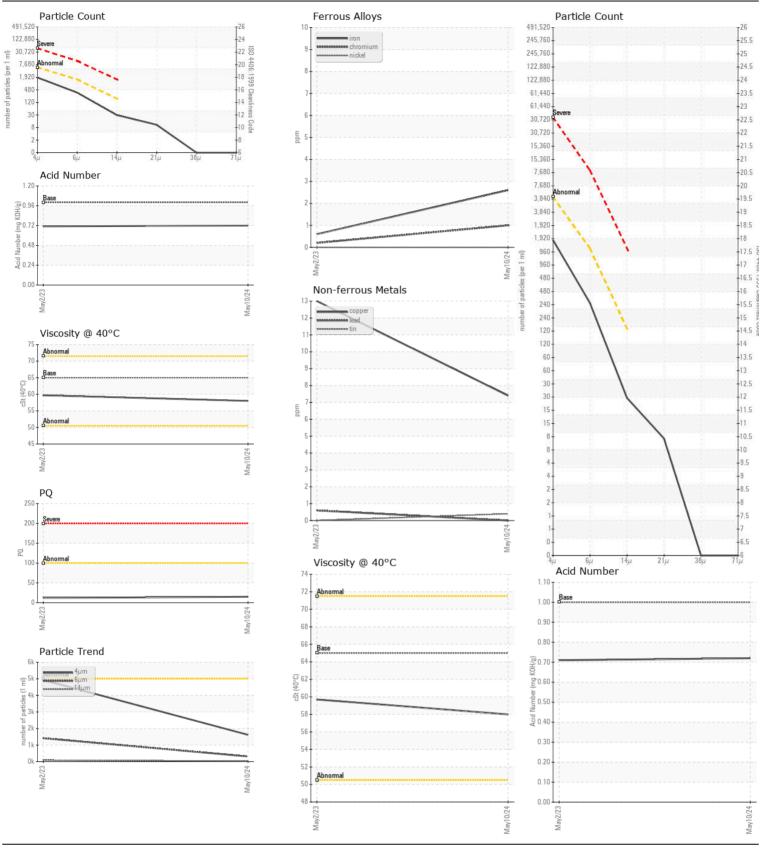
### CONTAMINATION

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.

Test         UOM         Method         Limit/kn         Current         History1         History2           Sample Dumber         Client Info         10 May 2024         20 May 2023            Machine Age         hrs         Client Info         982         442            Oil Age         hrs         Client Info         982         442            Oil Age         hrs         Client Info         Not Changed            Sample Data         Client Info         Not Changed          Not Changed            Sample Status          Nor Changed          Nor Changed            Sample Status          Nor Changed          Nor Changed            Filter Changed         ASTM D8185         >10         0             Sample Data         ASTM D8185         >10         0             Nickel         ppm         ASTM D5185         >10         0            Silver         pm         ASTM D5185         >10         0            Vanadium         ppm         ASTM D							
Sample Date         Client Info         982         442            Machine Age         hrs         Client Info         982         442            Oil Age         hrs         Client Info         982         442            Oil Changed         Client Info         982         442            Oil Changed         Client Info         982         442            Oil Changed         Client Info         Not Changed         Not Changed            Sample Status          Not Changed          Not Changed            PQ         ASTM D5185m<>20         3         <1             Sample Status         ppm         ASTM D5185m<>10         0         0            Titanium         ppm         ASTM D5185m<>10         -1         0            Silver         ppm         ASTM D5185m<>75         7         13            Copper         pmm         ASTM D5185m<>20         2         2            Vanadium         ppm         ASTM D5185m<>20         1         2	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Oil Age Filter Age         hrs Nrs         Client Info         982         442            Filter Age Oil Changed         Client Info         982         442            Oil Changed Sample Status         Client Info         Not Changed Not Changed         Not Changed            PQ         ASTM D5185m         >20         3         <1            PQ         ASTM D5185m         >20         3         <1            Nickel         ppm         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         0         0             Nickel         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         <-1         0            Vanadium         ppm         ASTM D5185m         >10         <-1         0            Vanadium         ppm         ASTM D5185m         >20         1         2            Vellow Metal         scalar         *Visual         NONE         NONE         NONE <td< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>JR0211016</th><th>JR0173049</th><th></th></td<>	Sample Number		Client Info		JR0211016	JR0173049	
Machine Age Oil Age Filter Age         hrs Nrs         Client Info         982         442            Filter Age Oil Changed         Client Info         982         442            Oil Changed Sample Status         Client Info         Not Changed Not Changed         Not Changed            PQ         ASTM D5185m         >20         3         <1            PQ         ASTM D5185m         >20         3         <1            Nickel         ppm         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         0         0             Nickel         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         <-1         0            Vanadium         ppm         ASTM D5185m         >10         <-1         0            Vanadium         ppm         ASTM D5185m         >20         1         2            Vellow Metal         scalar         *Visual         NONE         NONE         NONE <td< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>10 May 2024</th><th>02 May 2023</th><th></th></td<>	Sample Date		Client Info		10 May 2024	02 May 2023	
Filter Age         hrs         Client Info         982         442            Oil Changed         Client Info         Not Changed         Not Changed         Not Changed            Filter Changed         Client Info         Not Changed         Not Changed            Sample Status         Normal         ATTENTION            PQ         ASTM D8185m         >20         3         <1            Chromium         ppm         ASTM D5185m         >10         1         <1            Nickel         ppm         ASTM D5185m         >10         0         0            Aluminum         ppm         ASTM D5185m         0         0             Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadum         ppm         ASTM D5185m         >10         <1         0            Vanadum         ppm         ASTM D5185m         >20         1         2            Vanadum         ppm         ASTM D5185m         >20         1         2            Vellow Metal	Machine Age	hrs	Client Info		982	442	
Oil Changed Filter Changed Sample Status         Client Info Client Info         Not Changed Changed NORMAL         Not Changed ATTENTION	Oil Age	hrs	Client Info		982	442	
Filter Changed Sample Status         Client Info         Changed NORMAL         Not Changed ATTENTION	Filter Age	hrs	Client Info		982	442	
Sample Status         NORMAL         ATTENTION            PQ         ASTM D8184         15         12            Iron         ppm         ASTM D5185m         >20         3         <1            Chromium         ppm         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0             AstM D5185m         >10         C1         0             Vanadium         ppm         ASTM D5185m         >10         C1         0            Vanadium         ppm         ASTM D5185m         >20         2         2            Veltow Metal         scalar         *Visual         NONE         NONE         NONE            Vared         WC Method         >0         1         2            Soliton         ppm	Oil Changed		Client Info		Not Changd	Not Changd	
PQ         ASTM D8184         15         12            Iron         ppm         ASTM D6185m         >20         3         <1            Chromium         ppm         ASTM D5185m         >10         1         <1            Nickel         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         >10         0         0            Lead         ppm         ASTM D5185m         >10         <1         0            Lead         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >20         1         2            Vanadium         ppm         ASTM D5185m         >20         1         2            Vanadium         ppm         ASTM D5185m         >20         1         2            Vellow Metal         scalar         *Visual         NONE         NONE         NONE	Filter Changed		Client Info		Changed	Not Changd	
Iron         ppm         ASTM D5185m         >20         3         <1	Sample Status				NORMAL	ATTENTION	
Iron         ppm         ASTM D5185m         >20         3         <1							
Chromium         ppm         ASTM D5185m         >10         1         <1							
Nickel         ppm         ASTM D5185m         >10         0         0	-	ppm		-	-		
Titanium         ppm         ASTM D5185m         0         0					-		
Silver         ppm         ASTM D5185m         0         0         0            Aluminum         ppm         ASTM D5185m         >10         <1         0            Lead         ppm         ASTM D5185m         >10         0         <1            Copper         ppm         ASTM D5185m         >75         7         13            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >20         1         2            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Potassium         ppm         ASTM D7647         >5000         1620         4926            Particles >4µm         ASTM D7647         >100         11             Particles >4µm         ASTM D7647         >40         9         17            Particles >51µm         ASTM D7647         >10         0 <td< th=""><th></th><th>ppm</th><th></th><th>&gt;10</th><th>-</th><th></th><th></th></td<>		ppm		>10	-		
Aluminum         ppm         ASTM D5185m         >10         <1					-	-	
Lead         ppm         ASTM D5185m         >10         0         <1					-		
Copper         ppm         ASTM D5185m         >75         7         13            Tin         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         0         0            White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Solicon         ppm         ASTM D5185m         >20         2         2            Potassium         ppm         ASTM D5185m         >20         1         2            Particles >4µm         ASTM D7647         >5000         1620         4926            Particles >4µm         ASTM D7647         >100         26         92            Particles >21µm         ASTM D7647         >40         9         17            Particles >21µm         ASTM D7647         >3         0         0            Soli Cleanliness         ISO 4406 (c)         >19/17/14         18/15/12         19/18/14						÷	
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         2         2            Potassium         ppm         ASTM D5185m         >20         1         2            Patticles >4µm         ASTM D5185m         >20         1         2            Particles >4µm         ASTM D7647         >5000         1620         4926            Particles >5µm         ASTM D7647         >160         26         92            Particles >38µm         ASTM D7647         >10         0         1            Particles >38µm         ASTM D7647         >10         0         18/15/12         19/18/14            Particles >38µm         ASTM D7647         >30         0         0            Oil Cleanliness         scalar         *Visual         NONE         NONE         NONE					-		
White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         1         2            Potassium         ppm         ASTM D5185m         >20         1         2            Water         WC Method         >0.1         NEG         NEG            Particles >4µm         ASTM D7647         >1300         311         91417            Particles >14µm         ASTM D7647         >100         0         1            Particles >38µm         ASTM D7647         >10         0         1            Particles >38µm         ASTM D7647         >3         0         0            Particles >38µm         ASTM D7647         >3         0         0            Particles >38µm         ASTM D7647         >3         0         0            Silt         scalar         *Visual         NONE         NONE            Silt				>10			
Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         1         2            Potassium         ppm         ASTM D5185m         >20         1         2            Water         WC Method         >0.1         NEG         NEG            Particles >4µm         ASTM D7647         >5000         1620         4926            Particles >6µm         ASTM D7647         >160         26         92            Particles >1µm         ASTM D7647         >40         9         17            Particles >38µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NORML         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML         NORML					-	÷	
Silicon         ppm         ASTM D5185m         >20         2         2            Potassium         ppm         ASTM D5185m         >20         1         2            Water         WC Method         >0.1         NEG         NEG            Particles >4µm         ASTM D7647         >5000         1620         4926            Particles >6µm         ASTM D7647         >1300         311         1417            Particles >6µm         ASTM D7647         >160         26         92            Particles >1µm         ASTM D7647         >10         0         1            Particles >71µm         ASTM D7647         >10         0             Particles >71µm         ASTM D7647         >10         0             Silt         scalar         *Visual         NONE         NONE         NONE            Silt         scalar         *Visual         NONE         NONE         NORML            Appearance         scalar         *Visual         NORML         NORML         NORML				-			
Potassium         ppm         ASTM D5185m         >20         1         2            Water         WC Method         >0.1         NEG         NEG            Particles >4µm         ASTM D7647         >5000         1620         4926            Particles >6µm         ASTM D7647         >160         26         92            Particles >14µm         ASTM D7647         >10         0         1            Particles >21µm         ASTM D7647         >10         0         1            Particles >38µm         ASTM D7647         >10         0         1            Particles >71µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/15/12         19/18/14            Silt         scalar         *Visual         NONE         NONE            Debris         scalar         *Visual         NORM         NORM            Agpearance         scalar         *Visual	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium         ppm         ASTM D5185m         >20         1         2            Water         WC Method         >0.1         NEG         NEG            Particles >4µm         ASTM D7647         >5000         1620         4926            Particles >6µm         ASTM D7647         >160         26         92            Particles >14µm         ASTM D7647         >10         0         1            Particles >21µm         ASTM D7647         >10         0         1            Particles >38µm         ASTM D7647         >10         0         1            Particles >71µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/15/12         19/18/14            Silt         scalar         *Visual         NONE         NONE            Debris         scalar         *Visual         NORM         NORM            Agpearance         scalar         *Visual	Ciliaan			. 00	0	0	
Water         WC Method         >0.1         NEG            Particles >4µm         ASTM D7647         >5000         1620         4926            Particles >6µm         ASTM D7647         >1300         311         1417            Particles >14µm         ASTM D7647         >160         26         92            Particles >21µm         ASTM D7647         >40         9         17            Particles >38µm         ASTM D7647         >40         9         17            Particles >38µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Particles >38µm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         19/17/14         18/15/12         19/18/14            Silt         scalar         *Visual         NONE         NONE            Appearance         scalar         *Visual         NORML         NORML            Appearance         scalar         *Visual         NORM </th <th></th> <th></th> <th></th> <th></th> <th>_</th> <th></th> <th></th>					_		
Particles >4μm         ASTM D7647         >5000         1620         4926            Particles >6μm         ASTM D7647         >1300         311         1417            Particles >14μm         ASTM D7647         >160         26         92            Particles >21µm         ASTM D7647         >40         9         17            Particles >38µm         ASTM D7647         >40         9         17            Particles >38µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Particles >38µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Silt         scalar         *Visual         NONE         NONE         NONE            Soldor         scalar         *Visual         NORH         NORML         NORML            Appearance         scalar         *Visual         NORM         NORML         NORML            Boron		ρρπ			-	_	
Particles >6μm         ASTM D7647         >1300         311         1417            Particles >14μm         ASTM D7647         >160         26         92            Particles >21μm         ASTM D7647         >40         9         17            Particles >38µm         ASTM D7647         >10         0         1            Particles >71µm         ASTM D7647         >3         0         0            Particles >71µm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/15/12         19/18/14            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NORM         NORML         NORML            Appearance         scalar         *Visual         NORM         NORML         NORML            Boron         ppm         ASTM D5185m         0							
Particles >14µm         ASTM D7647         >160         26         92            Particles >21µm         ASTM D7647         >40         9         17            Particles >38µm         ASTM D7647         >10         0         1            Particles >71µm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/15/12         19/18/14            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NOR         NORE         NORE            Appearance         scalar         *Visual         NORML         NORML         NORML            Gdor         scalar         *Visual         NORML         NORML             Boron         ppm         ASTM D5185m         2         1            Molybdenum         pm         ASTM D5185m         0         <-1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Particles >21µm         ASTM D7647         >40         9         17            Particles >38µm         ASTM D7647         >10         0         1            Particles >71µm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/15/12         19/18/14            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NOR         NONE         NONE            Appearance         scalar         *Visual         NORM         NORML         NORML            Appearance         scalar         *Visual         NOR         NORML         NORML            Boron         ppm         ASTM D5185m         2         1            Boron         ppm         ASTM D5185m         0         <<1            Molybdenum         ppm         ASTM D5185m         0         <1					• • •	-	
Particles >38μm         ASTM D7647         >10         0         1            Particles >71μm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/15/12         19/18/14            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            Emulsified Water         scalar         *Visual         >0.1         NEG         NEG            Sodium         ppm         ASTM D5185m         2         1             Boron         ppm         ASTM D5185m         0         <1             Malganese         ppm         ASTM D5185m					-		
Particles >71µm         ASTM D7647         >3         0         0            Oil Cleanliness         ISO 4406 (c)         >19/17/14         18/15/12         19/18/14            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NOR         NONE         NONE            Appearance         scalar         *Visual         NORM         NORML         NORML            Odor         scalar         *Visual         NORML         NORML         NORML            Godr         scalar         *Visual         NORML         NORML         NORML            Godr         scalar         *Visual         >0.1         NEG         NEG            Boron         ppm         ASTM D5185m         2         1            Boron         ppm         ASTM D5185m         0         <<1            Malganese         ppm         ASTM D5185m         0         <1					-		
Oil CleanlinessISO 4406 (c)\$19/17/1418/15/1219/18/14Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m21BoronppmASTM D5185m00BariumppmASTM D5185m0<-1MolybdenumppmASTM D5185m10<MagnesiumppmASTM D5185m10PhosphorusppmASTM D5185m727614537ZincppmASTM D5185m900860776SulfurppmASTM D5185m1.00.71				-	-		
Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m00BoronppmASTM D5185m0<MolybdenumppmASTM D5185m0<-1MaganeseppmASTM D5185m10MagnesiumppmASTM D5185m<10PhosphorusppmASTM D5185m727614537ZincppmASTM D5185m900860776SulfurppmASTM D5185m1.00.720.71					-		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m21BoronppmASTM D5185m00BariumppmASTM D5185m0<1MolybdenumppmASTM D5185m0<1MagneseppmASTM D5185m10MagnesiumppmASTM D5185m<1184PhosphorusppmASTM D5185m727614537ZincppmASTM D5185m900860776SulfurppmASTM D5185m1.00.71		scalar					
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m21BoronppmASTM D5185m00BariumppmASTM D5185m0<1MolybdenumppmASTM D5185m0<1MagneseppmASTM D5185m10MagnesiumppmASTM D5185m<12PhosphorusppmASTM D5185m727614537ZincppmASTM D5185m900860776SulfurppmASTM D5185m1.00.720.71							
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m21BoronppmASTM D5185m00BariumppmASTM D5185m0<1MolybdenumppmASTM D5185m0<1MagneseppmASTM D5185m10MagnesiumppmASTM D5185m<12PhosphorusppmASTM D5185m727614537ZincppmASTM D5185m900860776SulfurppmASTM D5185m1.00.720.71							
Odor         scalar         *Visual         NORML         NORML         NORML            Emulsified Water         scalar         *Visual         >0.1         NEG         NEG            Sodium         ppm         ASTM D5185m         2         1            Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         <1            Molybdenum         ppm         ASTM D5185m         0         <1            Magnese         ppm         ASTM D5185m         1         0            Magnesium         ppm         ASTM D5185m         <1         2            Calcium         ppm         ASTM D5185m         <1         2            Phosphorus         ppm         ASTM D5185m         727         614         537            Zinc         ppm         ASTM D5185m         900         860         776            Sulfur         ppm         ASTM D5185m         1500         2013         1525       Acid Number (AN)         mg K0H/g							
Emulsified Water         scalar         *Visual         >0.1         NEG         NEG            Sodium         ppm         ASTM D5185m         2         1            Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         <1            Molybdenum         ppm         ASTM D5185m         0         <1            Magnese         ppm         ASTM D5185m         0         <1            Magnesium         ppm         ASTM D5185m         1         0            Calcium         ppm         ASTM D5185m         <1         2            Phosphorus         ppm         ASTM D5185m         727         614         537            Zinc         ppm         ASTM D5185m         900         860         776            Sulfur         ppm         ASTM D5185m         1500         2013         1525            Acid Number (AN)         mg KOH/g         ASTM D5455         1.0         0.71							
Sodium         ppm         ASTM D5185m         2         1            Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         <1            Molybdenum         ppm         ASTM D5185m         0         <1            Maganese         ppm         ASTM D5185m         0         <1            Magnesium         ppm         ASTM D5185m         1         0            Calcium         ppm         ASTM D5185m         <1         2            Phosphorus         ppm         ASTM D5185m         87         151         84            Zinc         ppm         ASTM D5185m         727         614         537            Sulfur         ppm         ASTM D5185m         900         860         776            Acid Number (AN)         mg KOH/g         ASTM D5185m         1.0         0.71					-		
Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         0         <1            Molybdenum         ppm         ASTM D5185m         0         <1            Manganese         ppm         ASTM D5185m         1         0            Magnesium         ppm         ASTM D5185m         1         0            Calcium         ppm         ASTM D5185m         <         <1         2            Phosphorus         ppm         ASTM D5185m         87         151         84            Zinc         ppm         ASTM D5185m         727         614         537            Sulfur         ppm         ASTM D5185m         900         860         776            Sulfur         ppm         ASTM D5185m         1500         2013         1525            Acid Number (AN)         mg K0H/g         ASTM D8045         1.0         0.71							
Barium         ppm         ASTM D5185m         0         <1	Sodium	ppm	ASTM D5185m		2	1	
Molybdenum         ppm         ASTM D5185m         0         <1	Boron	ppm	ASTM D5185m		0	0	
Manganese         ppm         ASTM D5185m         1         0            Magnesium         ppm         ASTM D5185m         <		ppm	ASTM D5185m			<1	
Magnesium         ppm         ASTM D5185m         <1	Molybdenum	ppm	ASTM D5185m		0	<1	
Calcium         ppm         ASTM D5185m         87         151         84            Phosphorus         ppm         ASTM D5185m         727         614         537            Zinc         ppm         ASTM D5185m         900         860         776            Sulfur         ppm         ASTM D5185m         1500         2013         1525            Acid Number (AN)         mg KOH/g         ASTM D8045         1.0         0.72         0.71	U	ppm					
Phosphorus         ppm         ASTM D5185m         727         614         537            Zinc         ppm         ASTM D5185m         900         860         776            Sulfur         ppm         ASTM D5185m         1500         2013         1525            Acid Number (AN)         mg KOH/g         ASTM D8045         1.0         0.72         0.71	Magnesium	ppm	ASTM D5185m		<1	2	
Zinc         ppm         ASTM D5185m         900         860         776            Sulfur         ppm         ASTM D5185m         1500         2013         1525            Acid Number (AN)         mg KOH/g         ASTM D8045         1.0         0.72         0.71	Calcium	ppm	ASTM D5185m	87	151	84	
Sulfur         ppm         ASTM D5185m         1500         2013         1525            Acid Number (AN)         mg KOH/g         ASTM D8045         1.0         0.72         0.71	Phosphorus	ppm	ASTM D5185m	727	614	537	
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.72 0.71							
				1500	2013		
Visc @ 40°C cSt ASTM D445 65 58.0 59.7							
	Visc @ 40°C	cSt	ASTM D445	65	58.0	59.7	



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - MANASSAS PARK** Sample No. 9107 OWENS DRIVE : JR0211016 Received : 13 May 2024 Lab Number MANASSAS PARK, VA :06177033 Tested : 14 May 2024 : 14 May 2024 - Wes Davis US 20111 Unique Number : 11023086 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)631-8500 F: (703)631-4715 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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