

Machine Id

HAMM H5I H222-2170 Component Drum Gearbox

{not provided} (--- GAL)

RFC	ЭММІ	TION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

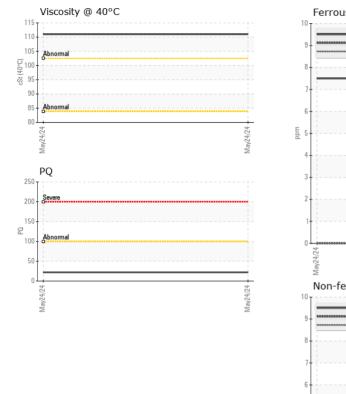
There is no indication of any contamination in the oil.

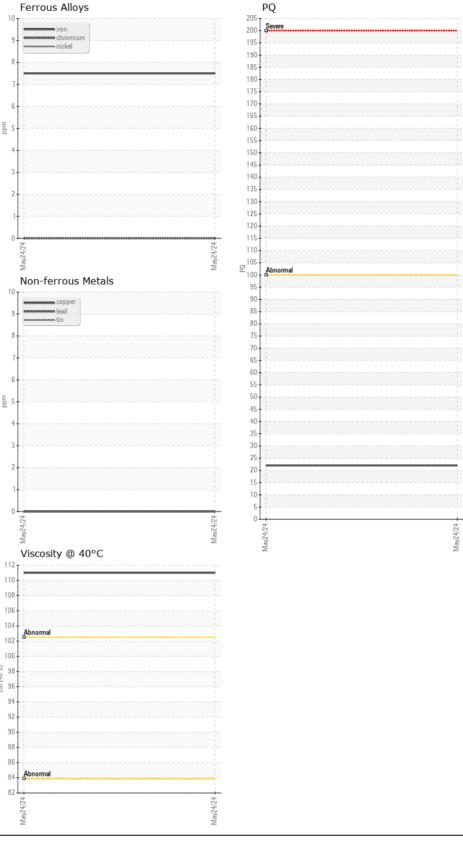
FLUID CONDITION

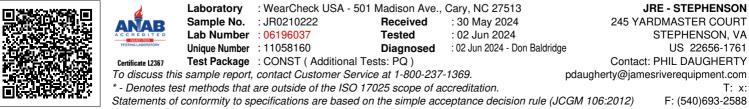
The condition of the oil is acceptable for the time in service.

Test UOM Method LimitAn Current History1 History2 Sample Number Client Info JR0210222 Sample Date Client Info 24 May 2024 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info Not Changd Filter Age hrs Client Info Not Changd Filter Changed Client Info Not Changd Sample Status Variant DS185m Not Changd PQ ASTM DS185m >10 0 Iron ppm ASTM DS185m No 0 Silver ppm ASTM DS185m 0 Aluminum ppm A							
Sample Date Client Info 24 May 2024 Machine Age hrs Client Info 183 Cil Age hrs Client Info 0 Filter Age hrs Client Info 0 Cil Changed Client Info Not Changd Filter Changed Client Info Not Changd Sample Status Not Changd PQ ASTM D5185 >10 0 Nickel ppm ASTM D5185 >10 0 Nickel ppm ASTM D5185 0 0 Aluminum ppm ASTM D5185 0 Lead ppm ASTM D5185 0 Vanadium ppm ASTM D5185 2 1 <	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info183Oil AgehrsClient Info0Filter AgehrsClient InfoNot ChangdOil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusNORMALPQASTM D5185m>2008PiconppmASTM D5185m>100NickelppmASTM D5185m-100NickelppmASTM D5185m0AluminumppmASTM D5185m0LeadppmASTM D5185m0VanadiumppmASTM D5185m0VanadiumppmASTM D5185m0SiliconppmASTM D5185m201SiliconppmASTM D5185m>201SiliconppmASTM D5185m>201SiliconppmASTM D5185m>201SiliconppmASTM D5185m>201SoliconppmASTM D5185m>201 <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>JR0210222</th> <th></th> <th></th>	Sample Number		Client Info		JR0210222		
Oil Age hrs Client Info O Filter Age hrs Client Info 0 Oil Changed Client Info Not Changd Filter Changed O Client Info Not Changd Filter Changed Client Info Not Changd Sample Status NORMAL PQ ASTM D5185m >200 8 Iron ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m 0	Sample Date		Client Info		24 May 2024		
Filter Age hrs Client Info 0 Oil Changed Client Info Not Changd Filter Changed Client Info Not Changd Sample Status NORMAL PQ ASTM D5185 >200 8 Iron ppm ASTM D5185 >10 0 Nickel ppm ASTM D5185 >10 0 Nickel ppm ASTM D5185 0 0 Silver ppm ASTM D5185 0 Qathminum ppm ASTM D5185 0 Lead ppm ASTM D5185 0 Vanadium ppm ASTM D5185 0 Yellow Metal scalar 'Visual NONE Silicon ppm ASTM D5185 8	Machine Age	hrs	Client Info		183		
Oll ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusNORMALPQASTM D818422IronppmASTM D8185>2008ChromiumppmASTM D5185m>100NickelppmASTM D5185m>100NickelppmASTM D5185m>100NickelppmASTM D5185m<11SilverppmASTM D5185m0PQppmASTM D5185m0AluminumppmASTM D5185m0PoperppmASTM D5185m0VanadiumppmASTM D5185m<11VanadiumppmASTM D5185m<11Yellow Metalscalar'VisualNONENONEYellow Metalscalar'VisualNONENONESiliconppmASTM D5185m8PotassiumppmASTM D5185m8SiliconppmASTM D5185mNONENONESoliumppmASTM D5185mNONENONEAppearancescalar'Visual	Oil Age	hrs	Client Info		0		
Filter Changed Client Info Not Changd Sample Status NORMAL PQ ASTM D8184 22 Iron ppm ASTM D8185 >200 8 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Vanadium <td< th=""><th>Filter Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th></th><th></th></td<>	Filter Age	hrs	Client Info		0		
Sample Status NORMAL PQ ASTM D8184 22 Iron ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Silver ppm ASTM D5185m 0 0 Aurninum ppm ASTM D5185m 0 0 Lead ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 Yellow Metal scalar 'Visual NONE NONE Silicon ppm ASTM D5185m S20 1 Soliton <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Not Changd</th> <th></th> <th></th>	Oil Changed		Client Info		Not Changd		
PQ ASTM D8184 22 Iron ppm ASTM D5185m >200 8 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m 0 0 Lead ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadum ppm ASTM D5185m <1 Vanadum ppm ASTM D5185m <21 1 Vanadum ppm ASTM D5185m <8	Filter Changed		Client Info		Not Changd		
Iron ppm ASTM D5185m >200 8 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m <1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <20 1 <t< th=""><th>Sample Status</th><th></th><th></th><th></th><th>NORMAL</th><th></th><th></th></t<>	Sample Status				NORMAL		
Iron ppm ASTM D5185m >200 8 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m <1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <20 1 <t< th=""><th>DO</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	DO						
Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m <1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <38 Vanadium ppm ASTM D5185m >20 1 Silicon ppm ASTM D5185m >20 1							
Nickel ppm ASTM D5185m >10 0 Titanium ppm ASTM D5185m <1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Yellow Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m 8 Silicon ppm ASTM D5185m 20 1 Silicon ppm ASTM D5185m 20 1	-				-		
Titanium ppm ASTM D5185m <1				_	-		
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 1 Vanadium ppm ASTM D5185m <1 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 1 Water WC Method >0.2 NEG Silit scalar *Visual NONE Sand/Dirt scalar *Visual NORM NORML		ppm		>10			
Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 1 Water WC Method >0.2 NEG Silt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NOR NORE Sodium ppm ASTM D5185m 2 Boron p							
Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 1 Water WC Method >0.2 NEG Silit scalar *Visual NONE NONE Debris scalar *Visual NORM NORML Appearance scalar *Visual NORML NORML							
CopperppmASTM D5185m0TinppmASTM D5185m0VanadiumppmASTM D5185m<1White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m8PotassiumppmASTM D5185m>201WaterWC Method>0.2NEGSilitscalar*VisualNONENONESand/Dirtscalar*VisualNONENONESand/Dirtscalar*VisualNOREAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m2NEGBoronppmASTM D5185m1MalganeseppmASTM D5185m0MagnesiumppmASTM D5185m7MagnesiumppmASTM D5185m120PhosphorusppmASTM D5185m58MagnesiumppmASTM D5185m58 <td< th=""><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th></td<>					-		
TinppmASTM D5185m0VanadiumppmASTM D5185m<1White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m8PotassiumppmASTM D5185m>201WaterWC Method >0.2NEGSilitscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENOREAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m2BoronppmASTM D5185m1BariumppmASTM D5185m1MaganeseppmASTM D5185m7MagnesiumppmASTM D5185m1120PhosphorusppmASTM D5185m1310ZincppmASTM D5185m58SollfurppmASTM D5185m58MagnesiumppmASTM D5185m58SulfurppmASTM D5185m58 <th></th> <th>ppm</th> <th></th> <th></th> <th>-</th> <th></th> <th></th>		ppm			-		
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m		-		
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m8PotassiumppmASTM D5185m>201WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m2NEGBoronppmASTM D5185m1MalganeseppmASTM D5185m1MagnesiumppmASTM D5185m7MagnesiumppmASTM D5185m1310PhosphorusppmASTM D5185m1310ZincppmASTM D5185m58SulfurppmASTM D5185m32188	Tin	ppm	ASTM D5185m		0		
Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m8PotassiumppmASTM D5185m>201WaterWC Method>0.2NEGSiltscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNOREAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m2BoronppmASTM D5185m1MolybdenumppmASTM D5185m0ManganeseppmASTM D5185m120ManganesiumppmASTM D5185m1310PhosphorusppmASTM D5185m58ZincppmASTM D5185m58SulfurppmASTM D5185m58SulfurppmASTM D5185m58SodiumppmASTM D5185m58ManganeseppmASTM D5185m58	Vanadium	ppm	ASTM D5185m		<1		
SiliconppmASTM D5185m8PotassiumppmASTM D5185m>201WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLBoronppmASTM D5185m2BoronppmASTM D5185m1MolybdenumppmASTM D5185m0ManganeseppmASTM D5185m7MagnesiumppmASTM D5185m1120PhosphorusppmASTM D5185m58ZincppmASTM D5185m58SulfurppmASTM D5185m58	White Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>201WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLDoforscalar*VisualNORMLNORMLSodiumppmASTM D5185m2BoronppmASTM D5185m1BariumppmASTM D5185m1ManganeseppmASTM D5185m7MagnesiumppmASTM D5185m120PhosphorusppmASTM D5185m1310ZincppmASTM D5185m58SulfurppmASTM D5185m58	Yellow Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>201WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLDoforscalar*VisualNORMLNORMLSodiumppmASTM D5185m2BoronppmASTM D5185m1BariumppmASTM D5185m1ManganeseppmASTM D5185m7MagnesiumppmASTM D5185m120PhosphorusppmASTM D5185m1310ZincppmASTM D5185m58SulfurppmASTM D5185m58	Silicon	nnm	ASTM D5185m		8		
WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*Visual>0.2NEGSodiumppmASTM D5185m2BoronppmASTM D5185m1BariumppmASTM D5185m1MalganeseppmASTM D5185m0MagnesiumppmASTM D5185m120PhosphorusppmASTM D5185m1310ZincppmASTM D5185m58SulfurppmASTM D5185m58				>20	-		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m2BoronppmASTM D5185m1BariumppmASTM D5185m0MalganeseppmASTM D5185m0MagnesiumppmASTM D5185m120PhosphorusppmASTM D5185m1310ZincppmASTM D5185m58SulfurppmASTM D5185m58SulfurppmASTM D5185m58SulfurppmASTM D5185m58SulfurppmASTM D5185m58SulfurppmASTM D5185m58 <th></th> <th>ppm</th> <th></th> <th></th> <th>•</th> <th></th> <th></th>		ppm			•		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNORENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m2BoronppmASTM D5185m11BariumppmASTM D5185m1MalganeseppmASTM D5185m0MagnesiumppmASTM D5185m120PhosphorusppmASTM D5185m1310ZincppmASTM D5185m58SulfurppmASTM D5185m58	Talo		WC Method	>0/2	NFG		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m2BoronppmASTM D5185m11BariumppmASTM D5185m1MolybdenumppmASTM D5185m0MagnesiumppmASTM D5185m0MagnesiumppmASTM D5185m120PhosphorusppmASTM D5185m1310ZincppmASTM D5185m58SulfurppmASTM D5185m58	Silt	scalar		-			
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m2BoronppmASTM D5185m1BariumppmASTM D5185m1MolybdenumppmASTM D5185m0MaganeseppmASTM D5185m0MagnesiumppmASTM D5185m120PhosphorusppmASTM D5185m1310ZincppmASTM D5185m58SulfurppmASTM D5185m58			*Visual	NONE	NONE		
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m2BoronppmASTM D5185m156BariumppmASTM D5185m1MolybdenumppmASTM D5185m1ManganeseppmASTM D5185m0MagnesiumppmASTM D5185m7CalciumppmASTM D5185m120PhosphorusppmASTM D5185m58ZincppmASTM D5185m58SulfurppmASTM D5185m58	Debris	scalar	*Visual *Visual	NONE NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 156 Barium ppm ASTM D5185m 1 Molybdenum ppm ASTM D5185m 1 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 120 Phosphorus ppm ASTM D5185m 1310 Zinc ppm ASTM D5185m 58 Sulfur ppm ASTM D5185m 32188	Debris Sand/Dirt	scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE		
Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 156 Barium ppm ASTM D5185m 1 Barium ppm ASTM D5185m 1 Molybdenum ppm ASTM D5185m <-1 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 7 Phosphorus ppm ASTM D5185m 120 Zinc ppm ASTM D5185m 1310 Sulfur ppm ASTM D5185m 58	Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NORML	NONE NONE NONE NORML		
Boron ppm ASTM D5185m 156 Barium ppm ASTM D5185m 1 Molybdenum ppm ASTM D5185m <1 Molybdenum ppm ASTM D5185m <1 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 7 Calcium ppm ASTM D5185m 120 Phosphorus ppm ASTM D5185m 1310 Zinc ppm ASTM D5185m 58 Sulfur ppm ASTM D5185m 32188	Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORE NORML	 	
Barium ppm ASTM D5185m 1 Molybdenum ppm ASTM D5185m <1 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 7 Phosphorus ppm ASTM D5185m 120 Zinc ppm ASTM D5185m 1310 Sulfur ppm ASTM D5185m 58	Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORE NORML	 	
Molybdenum ppm ASTM D5185m <1	Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORML NORML NEG	 	
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 7 Calcium ppm ASTM D5185m 120 Phosphorus ppm ASTM D5185m 1310 Zinc ppm ASTM D5185m 58 Sulfur ppm ASTM D5185m 32188	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2	 	
Magnesium ppm ASTM D5185m 7 Calcium ppm ASTM D5185m 120 Phosphorus ppm ASTM D5185m 1310 Zinc ppm ASTM D5185m 58 Sulfur ppm ASTM D5185m 32188	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 156		
Calcium ppm ASTM D5185m 120 Phosphorus ppm ASTM D5185m 1310 Zinc ppm ASTM D5185m 58 Sulfur ppm ASTM D5185m 32188	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 156 1		
Phosphorus ppm ASTM D5185m 1310 Zinc ppm ASTM D5185m 58 Sulfur ppm ASTM D5185m 32188	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 156 1 <1		
Zinc ppm ASTM D5185m 58 Sulfur ppm ASTM D5185m 32188	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 156 1 <1 <1 0		
Sulfur ppm ASTM D5185m 32188	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 156 1 <1 <1 0 7		
	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 156 1 <1 <1 0 7 120		
Visc @ 40°C cSt ASTM D445 [111]	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 156 1 <1 <1 0 7 120 1310		
Contract/Location: LULUE DALICUE DTV LANAVIN	Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NONE NONE NORML NORML NEG 2 156 1 <156 1 <10 7 120 1310 58		

Contact/Location: PHIL DAUGHERTY - JAMWIN







cSt (40°C)

Contact/Location: PHIL DAUGHERTY - JAMWIN Page 2 of 2