

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



LIEBHERR R926LC 054886-1715

Left Final Drive

GEAR OIL SAE 80W90 (--- 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) GEAR OIL SAE 80W90. Please confirm.

WEAR

All component wear rates are normal.

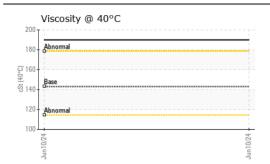
CONTAMINATION

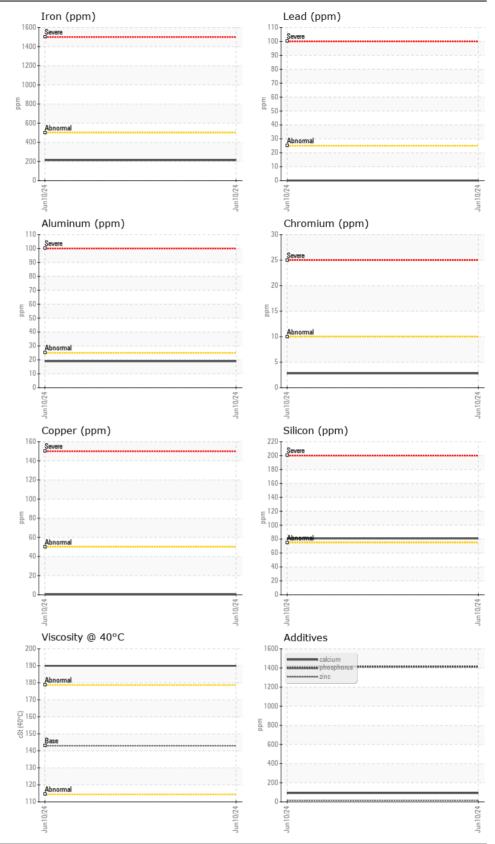
There is no indication of any contamination in the oil.

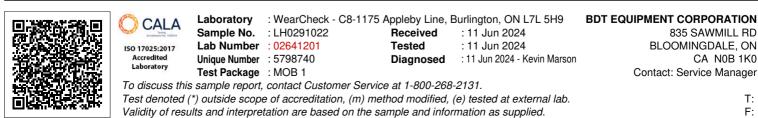
FLUID CONDITION

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

TestUOMMethodLim/AbsCurrentHistory1History2Sample NumberClient Info10 Jun 2024Machine AgehrsClient Info899Machine AgehrsClient Info0Filter AgehrsClient Info0Filter AgehrsClient InfoN/AFilter ChangedClient InfoN/AGli ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/AIronppmASTMD5165(m)>103NickelppmASTMD5165(m)>101NickelppmASTMD5165(m)>10AluminumppmASTMD5165(m)>250AluminumppmASTMD5165(m)>100YandoiumppmASTMD5165(m)>100YandoiumppmASTMD5165(m)>100Yallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow Metals							
Sample DateClient InfoI0 Jun 2024Machine AgehrsClient Info899Oil AgehrsClient Info0Filter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/AIronppmASTMD5185(m)>500213IronppmASTMD5185(m)>103NickelppmASTMD5185(m)>1041SilverppmASTMD5185(m)>2519AluminumppmASTMD5185(m)>50<1VanadiumppmASTMD5185(m)>50<1Yallow MetalscalarVisual*NONENONESiliconppmASTMD5185(m)>7581Yallow MetalscalarVisual*NONENONESiliconppmASTMD5185(m)>7581Yallow MetalscalarVisual*NONENONESiliconppmASTMD5185(m)>7581Yallow MetalscalarVisual*NONE <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 899 Dil Age hrs Client Info 0 Filter Age hrs Client Info N/A Dil Changed Client Info N/A Filter Changed Client Info N/A Sample Status Client Info N/A Iron ppm ASTM D5185(m) >500 213 Iron ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 Aluminum ppm ASTM D5185(m) >50 <11 Aluminum ppm ASTM D5185(m) >50 <11 Agea ppm ASTM D5185(m) >50 <11 Vanadium ppm <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>LH0291022</th> <th></th> <th></th>	Sample Number		Client Info		LH0291022		
Oil Age hrs Client Info 0 Filter Age hrs Client Info N/A Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status Client Info N/A Iron ppm ASTM D5185(m) >500 213 Iron ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 Aluminum ppm ASTM D5185(m) >25 19 Aluminum ppm ASTM D5185(m) >50 <1 Lead ppm ASTM D5185(m) >50 <1 Vanadium ppm ASTM D5185(m) >50 <1 Yellow Metal scalar Visual*<	Sample Date		Client Info		10 Jun 2024		
Filter Age hrs Client Info 0 Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status Client Info N/A Iron ppm ASTM D5185(m) >500 213 Chromium ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 Silver ppm ASTM D5185(m) >10 Aluminum ppm ASTM D5185(m) >25 0 Aluminum ppm ASTM D5185(m) >50 <11 Vanadium ppm ASTM D5185(m) >50 <1 Yellow Metal scalar Visual* NONE NONE Yel	Machine Age	hrs	Client Info		899		
Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL Iron ppm ASTM D5185(m) >500 213 Iron ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 4.1 Nickel ppm ASTM D5185(m) >10 4.1 Aluminum ppm ASTM D5185(m) >25 19 Auminum ppm ASTM D5185(m) >25 0 Auminum ppm ASTM D5185(m) >50 <11	Oil Age	hrs	Client Info		0		
Filter Changed Client Info N/A Sample Status NORMAL Iron ppm ASTM D5185(m) >500 213 Chromium ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 <1 Nickel ppm ASTM D5185(m) >10 <1 Silver ppm ASTM D5185(m) >25 0 Aluminum ppm ASTM D5185(m) >25 0 Lead ppm ASTM D5185(m) >25 0 Vanadium ppm ASTM D5185(m) >50 <1 Yellow Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m)	Filter Age	hrs	Client Info		0		
Sample Status NORMAL Iron ppm ASTM D5185(m) >500 213 Iron ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 1 Nickel ppm ASTM D5185(m) >10 1 Silver ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) >25 0 Lead ppm ASTM D5185(m) >25 0 Vanadium ppm ASTM D5185(m) >25 0 Yellow Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >20 9 Soliton scalar <	Oil Changed		Client Info		N/A		
Iron ppm ASTM D5185(m) >500 213 Chromium ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 <1 Titanium ppm ASTM D5185(m) >0 Aluminum ppm ASTM D5185(m) >25 19 Aluminum ppm ASTM D5185(m) >25 0 Lead ppm ASTM D5185(m) >50 <1 Vanadium ppm ASTM D5185(m) >50 <1 Vanadium ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >20 9 Vanadium ppm AS	Filter Changed		Client Info		N/A		
Chromium ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 <1 Titanium ppm ASTM D5185(m) 0 Silver ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) >25 19 Lead ppm ASTM D5185(m) >50 <1 Copper ppm ASTM D5185(m) >50 <1 Vanadium ppm ASTM D5185(m) >50 <1 Vanadium ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >20 P Vanadium ppm ASTM D5185(m) >20 P Yellow Metal scalar Visual* NONE NONE Silicon ppm A	Sample Status				NORMAL		
Chromium ppm ASTM D5185(m) >10 3 Nickel ppm ASTM D5185(m) >10 <1 Titanium ppm ASTM D5185(m) 0 Silver ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) >25 19 Lead ppm ASTM D5185(m) >50 <1 Copper ppm ASTM D5185(m) >50 <1 Vanadium ppm ASTM D5185(m) >50 <1 Vanadium ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >20 P Vanadium ppm ASTM D5185(m) >20 P Yellow Metal scalar Visual* NONE NONE Silicon ppm A							
Nickel ppm ASTM D5185(m) >10 <1	-	ppm	()		-		
Titanium ppm ASTM D5185(m) 1 Silver ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) >25 0 Lead ppm ASTM D5185(m) >25 0 Copper ppm ASTM D5185(m) >50 <1 Tin ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >20 9 Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >20 9 Silit scalar Visual* NONE NONE <		ppm	ASTM D5185(m)	>10	-		
Silver ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) >25 19 Lead ppm ASTM D5185(m) >25 0 Copper ppm ASTM D5185(m) >50 <1 Tin ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >10 0 Vandum ppm ASTM D5185(m) >10 0 Vandum ppm ASTM D5185(m) >20 9 Silicon ppm ASTM D5185(m) >20 9 Silit scalar Visual* NONE NONE Sand/Dirt scalar Visual* NORML NORML		ppm	()	>10			
Aluminum ppm ASTM D5185(m) >25 19 Lead ppm ASTM D5185(m) >25 0 Copper ppm ASTM D5185(m) >50 <1 Tin ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) 0 White Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >75 81 Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >20 9 Silicon ppm ASTM D5185(m) >20 9 Sodiam ppm ASTM D5185(m) >0.2 NEG		ppm	. ,				
Lead ppm ASTM D5185(m) >25 0 Copper ppm ASTM D5185(m) >50 <1		ppm			-		
Copper ppm ASTM D5185(m) >50 <1		ppm	(/		-		
Tin ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) 0 White Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >75 81 Potassium ppm ASTM D5185(m) >20 9 Water WC Method >0.2 NEG Silt scalar Visual* NONE NONE Debris scalar Visual* NORML NORML Appearance scalar Visual* NORML NORML Godor scalar Visual* NORM NORML					-		
Vanadium ppm ASTM D5185(m) 0 White Metal scalar Visual* NONE Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >75 81 Silicon ppm ASTM D5185(m) >20 9 Potassium ppm ASTM D5185(m) >20 9 Water WC Method >0.2 NEG Silt scalar Visual* NONE NONE Sand/Dirt scalar Visual* NORM NORML Appearance scalar Visual* NORML NORML Odor scalar Visual* >0.2 NEG Sodium ppm ASTM D5185(m) >170 10	Copper	ppm	ASTM D5185(m)	>50	<1		
White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONESiliconppmASTM D5185(m)>7581PotassiumppmASTM D5185(m)>209WaterWC Method>0.2NEGSiltscalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NORENOREAppearancescalarVisual*NORMNORMLOdorscalarVisual*NORNORMLSodiumppmASTM D5185(m)>10BoronppmASTM D5185(m)20012MolybdenumppmASTM D5185(m)120ManganeseppmASTM D5185(m)1217MagnesiumppmASTM D5185(m)15092PhosphorusppmASTM D5185(m)16501413ZincppmASTM D5185(m)12517SulfurppmASTM D5185(m)12517 <th></th> <th>ppm</th> <th> ()</th> <th>>10</th> <th>-</th> <th></th> <th></th>		ppm	()	>10	-		
Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >75 81 Potassium ppm ASTM D5185(m) >20 9 Water WC Method >0.2 NEG Silt scalar Visual* NONE NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Gdor scalar Visual* NORML NORML Sodium ppm ASTM D5185(m) >10 Boron ppm ASTM D5185(m) 200 12 Molybdenum ppm ASTM D5185(m) 12		ppm	ASTM D5185(m)		-		
Silicon ppm ASTM D5185(m) >75 81 Potassium ppm ASTM D5185(m) >20 9 Water WC Method >0.2 NEG Silt scalar Visual* NONE NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Sodium ppm ASTM D5185(m) >0.2 NEG Boron ppm ASTM D5185(m) >10 Barium ppm ASTM D5185(m) 200 12 Magnesium ppm ASTM D5185(m) 12	White Metal	scalar	Visual*	NONE	NONE		
Potassium ppm ASTM D5185(m) >20 9 Water WC Method >0.2 NEG Silt scalar Visual* NONE NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Molyoder scalar Visual* NORML NORML Sodium ppm ASTM D5185(m) >10 Boron ppm ASTM D5185(m) 200 12 Molybdenum ppm ASTM D5185(m) 12 0 Magnesium ppm AS	Yellow Metal	scalar	Visual*	NONE	NONE		
Potassium ppm ASTM D5185(m) >20 9 Water WC Method >0.2 NEG Silt scalar Visual* NONE NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Molyoder scalar Visual* NORML NORML Sodium ppm ASTM D5185(m) >10 Boron ppm ASTM D5185(m) 200 12 Molybdenum ppm ASTM D5185(m) 12 0 Magnesium ppm AS							
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>17010BoronppmASTM D5185(m)20012MalganeseppmASTM D5185(m)120MagnesiumppmASTM D5185(m)1217CalciumppmASTM D5185(m)15092PhosphorusppmASTM D5185(m)12517SulfurppmASTM D5185(m)12517SulfurppmASTM D5185(m)12517	Silicon	maa	ASTM D5185(m)	>75	81		
DebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>17010BoronppmASTM D5185(m)20012BariumppmASTM D5185(m)20012MalganeseppmASTM D5185(m)120MagnesiumppmASTM D5185(m)15092PhosphorusppmASTM D5185(m)12517ZincppmASTM D5185(m)12517SulfurppmASTM D5185(m)12517			. ,		-		
Sand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLNORMLOdorscalarVisual*NORMLNORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>17010BoronppmASTM D5185(m)20012BariumppmASTM D5185(m)20012MolybdenumppmASTM D5185(m)120MagnesiumppmASTM D5185(m)1217CalciumppmASTM D5185(m)15092PhosphorusppmASTM D5185(m)12517SulfurppmASTM D5185(m)2250025335	Potassium		ASTM D5185(m)	>20	9		
AppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>17010BoronppmASTM D5185(m)20012BariumppmASTM D5185(m)20012MolybdenumppmASTM D5185(m)120ManganeseppmASTM D5185(m)12177CalciumppmASTM D5185(m)15092PhosphorusppmASTM D5185(m)16501413ZincppmASTM D5185(m)12517SulfurppmASTM D5185(m)2250025335	Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >0.2	9 NEG		
Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG Sodium ppm ASTM D5185(m) >170 10 Boron ppm ASTM D5185(m) 400 4 Barium ppm ASTM D5185(m) 200 12 Molybdenum ppm ASTM D5185(m) 12 0 Manganese ppm ASTM D5185(m) 12 17 Calcium ppm ASTM D5185(m) 150 92 Phosphorus ppm ASTM D5185(m) 1650 1413 Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >0.2 NONE	9 NEG NONE		
Emulsified Water scalar Visual* >0.2 NEG Sodium ppm ASTM D5185(m) >170 10 Boron ppm ASTM D5185(m) 400 4 Barium ppm ASTM D5185(m) 200 12 Molybdenum ppm ASTM D5185(m) 12 0 Manganese ppm ASTM D5185(m) 12 4 Magnesium ppm ASTM D5185(m) 12 177 Phosphorus ppm ASTM D5185(m) 150 92 Zinc ppm ASTM D5185(m) 1650 1413 Sulfur ppm ASTM D5185(m) 125 17	Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>20 >0.2 NONE NONE	9 NEG NONE NONE	 	
Sodium ppm ASTM D5185(m) >170 10 Boron ppm ASTM D5185(m) 400 4 Barium ppm ASTM D5185(m) 200 12 Molybdenum ppm ASTM D5185(m) 12 0 Manganese ppm ASTM D5185(m) 12 4 Magnesium ppm ASTM D5185(m) 12 177 Calcium ppm ASTM D5185(m) 150 92 Phosphorus ppm ASTM D5185(m) 1650 1413 Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE	9 NEG NONE NONE NONE	 	
Boron ppm ASTM D5185(m) 400 4 Barium ppm ASTM D5185(m) 200 12 Molybdenum ppm ASTM D5185(m) 12 0 Manganese ppm ASTM D5185(m) 12 4 Magnesium ppm ASTM D5185(m) 12 17 Calcium ppm ASTM D5185(m) 150 92 Phosphorus ppm ASTM D5185(m) 1650 1413 Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE	9 NEG NONE NONE NONE NORML	 	
Boron ppm ASTM D5185(m) 400 4 Barium ppm ASTM D5185(m) 200 12 Molybdenum ppm ASTM D5185(m) 12 0 Manganese ppm ASTM D5185(m) 12 4 Magnesium ppm ASTM D5185(m) 12 17 Calcium ppm ASTM D5185(m) 150 92 Phosphorus ppm ASTM D5185(m) 1650 1413 Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NORML NORML	9 NEG NONE NONE NORE NORML	 	
Barium ppm ASTM D5185(m) 200 12 Molybdenum ppm ASTM D5185(m) 12 0 Manganese ppm ASTM D5185(m) 12 0 Magnesium ppm ASTM D5185(m) 12 17 Calcium ppm ASTM D5185(m) 150 92 Phosphorus ppm ASTM D5185(m) 1650 1413 Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NORML NORML	9 NEG NONE NONE NORE NORML	 	
Molybdenum ppm ASTM D5185(m) 12 0 Manganese ppm ASTM D5185(m) 4 Magnesium ppm ASTM D5185(m) 12 17 Calcium ppm ASTM D5185(m) 150 92 Phosphorus ppm ASTM D5185(m) 1650 1413 Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	9 NEG NONE NONE NORML NORML NEG 10	 	
Manganese ppm ASTM D5185(m) 4 Magnesium ppm ASTM D5185(m) 12 17 Calcium ppm ASTM D5185(m) 150 92 Phosphorus ppm ASTM D5185(m) 1650 1413 Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400	9 NEG NONE NONE NORML NORML NEG 10 4	 	
Magnesium ppm ASTM D5185(m) 12 17 Calcium ppm ASTM D5185(m) 150 92 Phosphorus ppm ASTM D5185(m) 1650 1413 Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400	9 NEG NONE NONE NORML NORML NEG 10 4 12		
Calcium ppm ASTM D5185(m) 150 92 Phosphorus ppm ASTM D5185(m) 1650 1413 Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200	9 NEG NONE NONE NORML NORML NEG 10 4 12 0		
Phosphorus ppm ASTM D5185(m) 1650 1413 Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400 200 12	9 NEG NONE NONE NORML NORML NEG 10 4 12 0 4		
Zinc ppm ASTM D5185(m) 125 17 Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400 200 12	9 NEG NONE NONE NORML NORML NEG 10 4 12 0 4		
Sulfur ppm ASTM D5185(m) 22500 25335	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200 12	9 NEG NONE NONE NORML NORML NEG 10 4 12 0 4 12		
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400 200 12 12 12 150 1650	9 NEG NONE NONE NORML NORML NEG 10 4 12 0 4 12 0 4 12		
Visc @ 40°C cSt ASTM D7279(m) 143 190	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400 200 12 12 12 150 1650 125	9 NEG NONE NONE NORML NORML NEG 10 4 12 0 4 12 0 4 17 92 1413 17		
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 >170 400 200 12 12 12 150 1650 125	9 NEG NONE NONE NORML NORML NEG 10 4 12 0 4 12 0 4 12 0 4 12 12 0 4 12 12 10 14 13 17 92 1413 17 92		







Submitted By: ? Page 2 of 2