



Machine Id LIEBHERR L580 069442-1762

Splitter Box Fluid 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 Info03 Jan 202403 Jan 2024Machine AgehrsClient Info003 Jan 20240Machine AgehrsClient Info000Filter AgehrsClient Info000Filter ChangedClient InfoN/A0Filter ChangedClient InfoN/A0Sample StatusClient InfoN/A0IronppmASTMD5185(m)>10071NickelppmASTMD5185(m)>53NickelppmASTMD5185(m)>53SilverppmASTMD5185(m)>300AuminumppmASTMD5185(m)>300VanadiumppmASTMD5185(m)>100Yallow MetalscalarVisual*NONENONESiliconppmASTMD5185(m)>100Yallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONE							
Sample DateClient Info03 Jan 2024Machine AgehrsClient Info3567Oil AgehrsClient Info0Filter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusViralNORMALIronppmASTMD5165(m)>5<1NickelppmASTMD5165(m)0NickelppmASTMD5165(m)201AluminumppmASTMD5165(m)200AluminumppmASTMD5165(m)300VanadiumppmASTMD5165(m)20<1Yallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarVisual*NONENONEYallow MetalscalarV	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age         hrs         Client Info         3567             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)         >100         71             Chromium         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >0              Silver         ppm         ASTM D5185(m)         >20         1             Auminum         ppm         ASTM D5185(m)         >30         0             Auminum         ppm         ASTM D5185(m)         >30         <1             Vanadium         ppm <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>LH0247600</th> <th></th> <th></th>	Sample Number		Client Info		LH0247600		
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)         >100         71             Chromium         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >5         3             Aluminum         ppm         ASTM D5185(m)         >20         1             Aluminum         ppm         ASTM D5185(m)         >30         0             Aluminum         ppm         ASTM D5185(m)         >10         0             Aluminum         ppm         ASTM D5185(m)         >30         <11	Sample Date		Client Info		03 Jan 2024		
Filter Age         hrs         Client Info         N/A            Gil changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         Client Info         N/A             Iron         ppm         ASTM D5185(m)         >50         <1            Nickel         ppm         ASTM D5185(m)         >5         3            Nickel         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         20         1            Aluminum         ppm         ASTM D5185(m)         >20         <1            Aluminum         ppm         ASTM D5185(m)         >20         <1            Yellow Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >30         <1            Yellow Metal	Machine Age	hrs	Client Info		3567		
Oil Changed         Client Info         N/A            Filter Changed         Client Info         N/A            Sample Status         NORMAL             Iron         ppm         ASTM D5185(m)         >100         71            Nickel         ppm         ASTM D5185(m)         >5         3            Nickel         ppm         ASTM D5185(m)         >5         3            Silver         ppm         ASTM D5185(m)         >5         3            Aluminum         ppm         ASTM D5185(m)         >0             Aluminum         ppm         ASTM D5185(m)         >00             Lead         ppm         ASTM D5185(m)         >00             Vanadium         ppm         ASTM D5185(m)         >00             Yellow Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE             Yellow Metal         scalar         Visual*         N	Oil Age	hrs	Client Info		0		
Filter Changed         Client Info         N/A            Sample Status         NORMAL             Iron         ppm         ASTM D5185(m)         >100         71            Chromium         ppm         ASTM D5185(m)         >5             Nickel         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >5         3             Silver         ppm         ASTM D5185(m)         >0             Aluminum         ppm         ASTM D5185(m)         >0             Lead         ppm         ASTM D5185(m)         >00	Filter Age	hrs	Client Info		0		
Sample Status         NORMAL             Iron         ppm         ASTM D5185(m)         >100         71             Chromium         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >0             Aluminum         ppm         ASTM D5185(m)         >20         1             Aluminum         ppm         ASTM D5185(m)         >20         1             Lead         ppm         ASTM D5185(m)         >20         <1             Vanadium         ppm         ASTM D5185(m)         >0         0             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >30         <1             Silicon         ppm         ASTM D5185(m)         >20         <1	Oil Changed		Client Info		N/A		
Iron         ppm         ASTM D5185(m)         >100         71             Chromium         ppm         ASTM D5185(m)         >5         3             Nickel         ppm         ASTM D5185(m)         >5         3             Titanium         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         >20         1             Aluminum         ppm         ASTM D5185(m)         >30         0             Lead         ppm         ASTM D5185(m)         >30         0             Vanadium         ppm         ASTM D5185(m)         >30         0             Vanadium         ppm         ASTM D5185(m)         >10         0	Filter Changed		Client Info		N/A		
Chromium         ppm         ASTM D5185(m)         >5         <1	Sample Status				NORMAL		
Chromium         ppm         ASTM D5185(m)         >5         <1							
Nickel         ppm         ASTM D5185(m)         >5         3            Titanium         ppm         ASTM D5185(m)         0            Silver         ppm         ASTM D5185(m)         0            Aluminum         ppm         ASTM D5185(m)         >20         1            Lead         ppm         ASTM D5185(m)         >20         <1            Copper         ppm         ASTM D5185(m)         >20         <1            Tin         ppm         ASTM D5185(m)         >20         <1            Vanadium         ppm         ASTM D5185(m)         >20         <1            Vanadium         ppm         ASTM D5185(m)         >20         <1            Yellow Metal         scalar         Visual*         NONE             Yellow Metal         scalar         Visual*         NONE             Silicon         ppm         ASTM D5185(m)         >20         <1             Water         WC Method         >0.1         NEG							
Titanium         ppm         ASTM D5185(m)         O            Silver         ppm         ASTM D5185(m)         O            Aluminum         ppm         ASTM D5185(m)         >20         1            Lead         ppm         ASTM D5185(m)         >20         1            Lead         ppm         ASTM D5185(m)         >20         <1            Copper         ppm         ASTM D5185(m)         >20         <1            Tin         ppm         ASTM D5185(m)         >20         <1            Vanadium         ppm         ASTM D5185(m)         >10         0            Vandum         ppm         ASTM D5185(m)         >20         <1            Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >20         <1             Water         WC Method         >0.1         NEG             Silit         scalar         Visual*         NONE         NONE		ppm	× 7				
Silver         ppm         ASTM D5185(m)         0            Aluminum         ppm         ASTM D5185(m)         >20         1            Lead         ppm         ASTM D5185(m)         >30         0            Copper         ppm         ASTM D5185(m)         >20         <1            Tin         ppm         ASTM D5185(m)         >10         0            Vanadium         ppm         ASTM D5185(m)         >10         0            White Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >30         <1             Yellow Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Solit         scalar         Visual*         NONE         NONE             Sand/Dirt			. ,	>5	-		
Aluminum         ppm         ASTM D5185(m)         >20         1            Lead         ppm         ASTM D5185(m)         >30         0             Copper         ppm         ASTM D5185(m)         >20         <1             Tin         ppm         ASTM D5185(m)         >10         0             Vanadium         ppm         ASTM D5185(m)         0         0             Vanadium         ppm         ASTM D5185(m)         >10         0             Vanadium         ppm         ASTM D5185(m)         >10         0             Vanadium         ppm         ASTM D5185(m)         >20         <1             Vellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >20         <1             Silit         scalar         Visual*         NONE         NONE             Debris         scalar         Visual*			. ,		-		
Lead         pm         ASTM D5185(m)         >30         0             Copper         ppm         ASTM D5185(m)         >20         <1             Tin         ppm         ASTM D5185(m)         >10         0             Vanadium         ppm         ASTM D5185(m)         >10         0             White Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >30         <1             Water         WC Method         >.0         NONE              Silt         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NOR         NORML             Appearance         scalar         Visual*         NOR         NORML             Boron         ppm					-		
Copper         ppm         ASTM D5185(m)         >20         <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            Silicon         ppm         ASTM D5185(m)         >30         <1            Potassium         ppm         ASTM D5185(m)         >20         <1            Water         WC Method         >0.1         NEG             Silt         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)         >170         <1 <t< th=""><th></th><th>ppm</th><th></th><th></th><th>-</th><th></th><th></th></t<>		ppm			-		
Vanadium         ppm         ASTM D5185(m)         0             White Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Silicon         ppm         ASTM D5185(m)         >30         <1             Potassium         ppm         ASTM D5185(m)         >20         <1             Water         WC Method         >0.1         NEG              Silt         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)<>170         <1             Boron         ppm         ASTM D5185(m) </th <th></th> <th>ppm</th> <th>( /</th> <th>&gt;20</th> <th>&lt;1</th> <th></th> <th></th>		ppm	( /	>20	<1		
White Metal         scalar         Visual*         NONE         NONE            Yellow Metal         scalar         Visual*         NONE             Silicon         ppm         ASTM D5185(m)         >30         <1             Potassium         ppm         ASTM D5185(m)         >20         <1             Water         WC Method         >0.1         NEG             Silt         scalar         Visual*         NONE         NONE            Debris         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NORM         NORE             Appearance         scalar         Visual*         NORM         NORML             Odor         scalar         Visual*         NORM         NORML             Sodium         ppm         ASTM D5185(m)         >170         <1             Boron         ppm         ASTM D5185(m)         200         0		ppm	( )	>10	-		
Yellow Metal         scalar         Visual*         NONE         NONE            Silicon         ppm         ASTM D5185(m)         >30         <1             Potassium         ppm         ASTM D5185(m)         >20         <1             Water         WC Method         >0.1         NEG             Silit         scalar         Visual*         NONE         NONE            Silit         scalar         Visual*         NONE         NONE            Debris         scalar         Visual*         NONE         NONE            Sand/Dirt         scalar         Visual*         NORE         NORE            Appearance         scalar         Visual*         NORM         NORML            Odor         scalar         Visual*         NOR         NORML             Sodium         ppm         ASTM D5185(m)         >170         <1             Boron         ppm         ASTM D5185(m)         200         0             Molyb					-		
Silicon         ppm         ASTM D5185(m)         >30         <1		scalar					
Potassium         ppm         ASTM D5185(m)         >20         <1	Yellow Metal	scalar	Visual*	NONE	NONE		
Potassium         ppm         ASTM D5185(m)         >20         <1							
WaterWC Method>0.1NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLCodorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)>170<1BoronppmASTM D5185(m)2000MalganeseppmASTM D5185(m)121MagnesiumppmASTM D5185(m)1210PhosphorusppmASTM D5185(m)150102ZincppmASTM D5185(m)12574ZincppmASTM D5185(m)12574	Silicon	maa	ASTM D5185(m)	>30	<1		
DebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)>170<1BoronppmASTM D5185(m)2000BariumppmASTM D5185(m)2000MolybdenumppmASTM D5185(m)121MagnesiumppmASTM D5185(m)122MagnesiumppmASTM D5185(m)15010PhosphorusppmASTM D5185(m)12574ZincppmASTM D5185(m)2250024511							
Sand/Dirt         scalar         Visual*         NONE         NORE             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Emulsified Water         scalar         Visual*         >0.1         NEG             Sodium         ppm         ASTM D5185(m)         >170         <1             Boron         ppm         ASTM D5185(m)         200         0             Barium         ppm         ASTM D5185(m)         200         0             Malganese         ppm         ASTM D5185(m)         12         1             Magnesium         ppm         ASTM D5185(m)         12         2             Phosphorus         ppm         ASTM D5185(m)         150         10             Zinc	Potassium		ASTM D5185(m)	>20	<1		
AppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)>170<1BoronppmASTM D5185(m)2000BariumppmASTM D5185(m)2000MolybdenumppmASTM D5185(m)121ManganeseppmASTM D5185(m)122MagnesiumppmASTM D5185(m)15010PhosphorusppmASTM D5185(m)16501925ZincppmASTM D5185(m)12574SulfurppmASTM D5185(m)2250024511	Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >0.1	<1 NEG	  	  
Odor         scalar         Visual*         NORML         NORML            Emulsified Water         scalar         Visual*         >0.1         NEG             Sodium         ppm         ASTM D5185(m)         >170         <1             Boron         ppm         ASTM D5185(m)         400         5             Barium         ppm         ASTM D5185(m)         200         0             Molybdenum         ppm         ASTM D5185(m)         12         1             Manganese         ppm         ASTM D5185(m)         12         2             Magnesium         ppm         ASTM D5185(m)         12         2             Phosphorus         ppm         ASTM D5185(m)         150         100             Zinc         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74        Sulfur         ppm         ASTM D5185(m)<	Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >0.1 NONE	<1 NEG NONE	  	  
OdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.1NEGSodiumppmASTM D5185(m)>170<1BoronppmASTM D5185(m)4005BariumppmASTM D5185(m)2000MolybdenumppmASTM D5185(m)121ManganeseppmASTM D5185(m)121MagnesiumppmASTM D5185(m)150100PhosphorusppmASTM D5185(m)16501925ZincppmASTM D5185(m)12574SulfurppmASTM D5185(m)2250024511	Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>20 >0.1 NONE NONE	<1 NEG NONE NONE	  	   
Sodium         ppm         ASTM D5185(m)         >170         <1	Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>20 >0.1 NONE NONE NONE	<1 NEG NONE NONE NONE		
Boron         ppm         ASTM D5185(m)         400         5            Barium         ppm         ASTM D5185(m)         200         0            Molybdenum         ppm         ASTM D5185(m)         12         1            Manganese         ppm         ASTM D5185(m)         12         2            Magnesium         ppm         ASTM D5185(m)         12         2            Calcium         ppm         ASTM D5185(m)         12         2            Phosphorus         ppm         ASTM D5185(m)         150         10            Zinc         ppm         ASTM D5185(m)         125         74            Sulfur         ppm         ASTM D5185(m)         22500         24511	Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>20 >0.1 NONE NONE NONE NORML	<1 NEG NONE NONE NONE NORML		  
Boron         ppm         ASTM D5185(m)         400         5            Barium         ppm         ASTM D5185(m)         200         0            Molybdenum         ppm         ASTM D5185(m)         12         1            Manganese         ppm         ASTM D5185(m)         12         2            Magnesium         ppm         ASTM D5185(m)         12         2            Calcium         ppm         ASTM D5185(m)         12         10            Phosphorus         ppm         ASTM D5185(m)         1650         1925            Zinc         ppm         ASTM D5185(m)         125         74            Sulfur         ppm         ASTM D5185(m)         22500         24511	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 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NONE NORML NORML	 	  
Barium         ppm         ASTM D5185(m)         200         0            Molybdenum         ppm         ASTM D5185(m)         12         1             Manganese         ppm         ASTM D5185(m)         12         1             Magnesium         ppm         ASTM D5185(m)         12         2             Calcium         ppm         ASTM D5185(m)         150         10             Phosphorus         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74             Sulfur         ppm         ASTM D5185(m)         22500         24511	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 >0.1 NONE NONE NORML NORML	<1 NEG NONE NONE NONE NORML NORML	 	  
Molybdenum         ppm         ASTM D5185(m)         12         1            Manganese         ppm         ASTM D5185(m)         1             Magnesium         ppm         ASTM D5185(m)         12         2             Magnesium         ppm         ASTM D5185(m)         12         2             Calcium         ppm         ASTM D5185(m)         150         10             Phosphorus         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74             Sulfur         ppm         ASTM D5185(m)         22500         24511	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML >0.1	<1 NEG NONE NONE NORML NORML NEG	   	    
Manganese         ppm         ASTM D5185(m)         <1	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)	>20 >0.1 NONE NONE NORML NORML >0.1	<1 NEG NONE NONE NORML NORML NEG	    	
Magnesium         ppm         ASTM D5185(m)         12         2             Calcium         ppm         ASTM D5185(m)         150         10             Phosphorus         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74             Sulfur         ppm         ASTM D5185(m)         22500         24511	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 >0.1 NONE NONE NORML >0.1 >170 400	<1 NEG NONE NONE NORML NORML NEG <1 5		
Calcium         ppm         ASTM D5185(m)         150         10             Phosphorus         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74             Sulfur         ppm         ASTM D5185(m)         22500         24511	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	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)	>20 >0.1 NONE NONE NORML NORML >0.1 >170 400 200	<1 NEG NONE NONE NORML NORML NEG <1 5 0		
Phosphorus         ppm         ASTM D5185(m)         1650         1925             Zinc         ppm         ASTM D5185(m)         125         74             Sulfur         ppm         ASTM D5185(m)         22500         24511	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	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 >0.1 NONE NONE NORML NORML >0.1 >170 400 200	<1 NEG NONE NONE NORML NORML NEG <1 5 0 1		
Zinc         ppm         ASTM D5185(m)         125         74            Sulfur         ppm         ASTM D5185(m)         22500         24511	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum 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 >0.1 NONE NONE NORML >0.1 >170 400 200 12	<1 NEG NONE NONE NORML NORML NEG <1 5 0 1 5		
Sulfur         ppm         ASTM D5185(m)         22500         24511	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar 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)	>20 >0.1 NONE NONE NORML >0.1 >170 400 200 12	<1 NEG NONE NONE NORML NORML NEG <1 5 0 1 5 0 1 2		
	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* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML >0.1 >170 400 200 12	<1 NEG NONE NONE NORML NORML NEG <1 5 0 1 <1 2 10		
Visc @ 40°C cSt ASTM D7279(m) 143 178	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	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 >0.1 NONE NONE NORML >0.1 >170 400 200 12 12 12 150 1650	<1 NEG NONE NONE NORML NORML NEG <1 5 0 1 <1 2 10 1 925		
	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar 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 >0.1 NONE NONE NORML >0.1 >170 400 200 12 12 12 150 1650 125	<1 NEG NONE NONE NORML NORML NEG <1 5 0 1 5 0 1 2 10 1 925 74		

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Submitted By: ?





