

#### SULLUBE Machine Id SULLAIR 200703160116 - EPSILYTE J-ACP-B/PACK WAREHOUSE Component Compressor

# RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

# CONTAMINATION

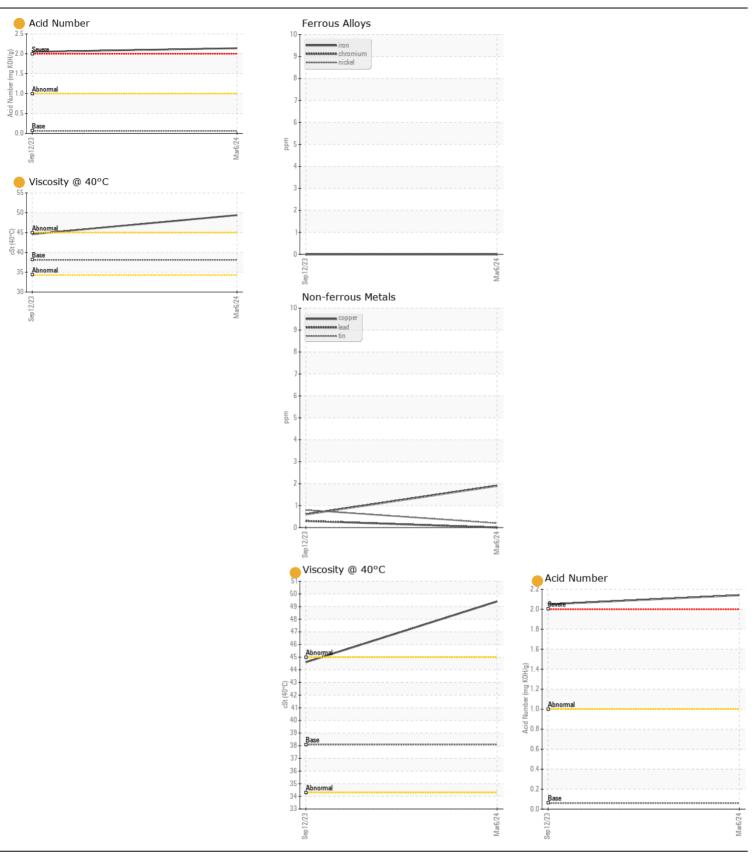
There is no indication of any contamination in the oil.

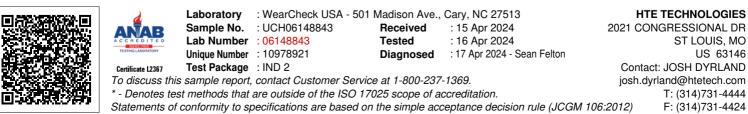
### **FLUID CONDITION**

The AN level is above the recommended limit. The oil viscosity is higher than normal.

TestUOMMethodLimit/AnCurrentHistory1History2Sample NumberClient Info06 Mar 202412 Sep 2023Machine AgehrsClient Info00Filter AgehrsClient Info00Filter AgehrsClient Info00Filter AgehrsClient InfoN/ANt/ChangedFilter ChangedClient InfoN/ANt/ASample StatusClient InfoN/AN/AIronppmASTM D5185>5000NickelppmASTM D5185-5000NickelppmASTM D5185-250SilverppmASTM D5185>500AluminumppmASTM D5185>500LeadppmASTM D5185>502VanadiumppmASTM D5185>502Yellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185>2523Yellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185>2089Yellow Metalscalar'VisualNONENONENONESolicon							
Sample DateClient Info06 Mar 202412 Sep 2023Machine AgehrsClient Info7899575637Oil AgehrsClient Info00Filter AgehrsClient InfoN/ANot ChangdOil ChangedClient InfoN/AN/AFilter ChangedClient InfoN/AN/ASample StatusClient InfoN/AN/AFronppmASTM D5185-5000NickelppmASTM D5185-5000NickelppmASTM D5185-5000AluminumppmASTM D5185-500AluminumppmASTM D5185>502AluminumppmASTM D5185>502CopperppmASTM D5185>502VanduimppmASTM D5185>502VanduimppmASTM D5185>502SiliconppmASTM D5185>502SiliconppmASTM D5185>223SiliconppmASTM D5185>223SiliconppmASTM D5185>223SiliconppmASTM D5185>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info7899575637Oil AgehrsClient Info00Filter AgehrsClient InfoN/ANot ChangdOil ChangedClient InfoN/AN/AFilter ChangedClient InfoN/AN/ASample StatusATTENTIONATTENTIONIronppmASTM D5185m5000ChromiumppmASTM D5185m000NickelppmASTM D5185m000SilverppmASTM D5185m20<1AuminumppmASTM D5185m250<1AuminumppmASTM D5185m>502<1QanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>50	Sample Number		Client Info		UCH06148843	UCH0596459	
Oil Age Filter Age         hrs         Client Info         O         O            Filter Age         hrs         Client Info         N/A         Not Changed            Goll Changed         Client Info         N/A         NA         NA            Filter Changed         Client Info         N/A         N/A            Sample Status         TTENTION         ATTENTION            Iron         ppm         ASTM D5185m         500         0            Chromium         ppm         ASTM D5185m         0         0            Nickel         ppm         ASTM D5185m         50         0            Silver         ppm         ASTM D5185m         50         2            Aluminum         ppm         ASTM D5185m         50         2            Vanadium         ppm         ASTM D5185m         50         2            Vanadium         ppm         ASTM D5185m         52         2            Vanadium         ppm         ASTM D5185m         >2         3            Valuo Metal	Sample Date		Client Info		06 Mar 2024	12 Sep 2023	
Filter AgehrsClient Info00Oil ChangedClient InfoN/ANAC hangdFilter ChangedClient InfoN/AN/ASample StatusATTENTIONATTENTIONIronppmASTM D5185m>5000ChromiumppmASTM D5185m>1000NickelppmASTM D5185m000TitaniumppmASTM D5185m250<1AluminumppmASTM D5185m>250<1LeadppmASTM D5185m>502<1CopperppmASTM D5185m>502<1VanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>223Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089SoliconppmASTM D5185m>2089SiliconppmASTM D5185m1NORE	Machine Age	hrs	Client Info		78995	75637	
Oil ChangedClient InfoN/AN/AN/AFilter ChangedClient InfoN/AN/AATTENTIONSample StatusATTENTIONATTENTIONIronppmASTM D5185m>5000NickelppmASTM D5185m1000NickelppmASTM D5185m000SilverppmASTM D5185m250<1AluminumppmASTM D5185m>250<1LeadppmASTM D5185m>502<1CopperppmASTM D5185m>502<1YanadiumppmASTM D5185m>502<1VanadiumppmASTM D5185m>5023Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089<	Oil Age	hrs	Client Info		0	0	
Filter Changed         Client Info         NA         N/A            Sample Status         ATTENTION         ATTENTION         ATTENTION            Iron         ppn         ASTM D5185m         >50         0         0            Chromium         ppn         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         20         0            Aluminum         ppm         ASTM D5185m         >25         0         <1            Lead         ppm         ASTM D5185m         >25         0         <1            Vanadium         ppm         ASTM D5185m         >50         2         <1            Yanadium         ppm         ASTM D5185m         >50         2         <1            Vanadium         ppm         ASTM D5185m         >20         ASTM D5185m         <2         3            Yellow Metal         scalar         Yusual         NONE         NONE         NONE <th>Filter Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th></th>	Filter Age	hrs	Client Info		0	0	
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Iron         ppm         ASTM D5185m         >50         0         0            Chromium         ppm         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         0         0            Titanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         20         0.1            Aluminum         ppm         ASTM D5185m         >25         0.0         <1            Lead         ppm         ASTM D5185m         >25         0.0         <1            Vanadium         ppm         ASTM D5185m         >15         <1         0            Yanadium         ppm         ASTM D5185m         >15         <1         0            Yanadium         ppm         ASTM D5185m         >10         <1         0.0            Yanadium         ppm         ASTM D5185m         >20         8         9            Yellow Metal         scalar         Yusual         NONE         NONE       <	Filter Changed		Client Info		N/A	N/A	
Chromium         ppm         ASTM D5185m         >10         0         0         0           Nickel         ppm         ASTM D5185m         0         0            Titanium         ppm         ASTM D5185m         0         0            Aluminum         ppm         ASTM D5185m         22         0         <1            Aluminum         ppm         ASTM D5185m         >25         0         <1            Aluminum         ppm         ASTM D5185m         >50         2         <1            Lead         ppm         ASTM D5185m         >50         2         <1            Vanadium         ppm         ASTM D5185m         >50         2         <1            Vanadium         ppm         ASTM D5185m         >15         <1         0            Vanadium         ppm         ASTM D5185m         >20         8         9            Vanadium         ppm         ASTM D5185m         >20         8         9            Vellow Metal         scalar         *Visual         NONE         NONE         NONE	Sample Status				ATTENTION	ATTENTION	
Chromium         ppm         ASTM D5185m         >10         0         0         0           Nickel         ppm         ASTM D5185m         0         0            Titanium         ppm         ASTM D5185m         0         0            Aluminum         ppm         ASTM D5185m         22         0         <1            Aluminum         ppm         ASTM D5185m         >25         0         <1            Aluminum         ppm         ASTM D5185m         >50         2         <1            Lead         ppm         ASTM D5185m         >50         2         <1            Vanadium         ppm         ASTM D5185m         >50         2         <1            Vanadium         ppm         ASTM D5185m         >15         <1         0            Vanadium         ppm         ASTM D5185m         >20         8         9            Vanadium         ppm         ASTM D5185m         >20         8         9            Vellow Metal         scalar         *Visual         NONE         NONE         NONE						·····	
NickelppmASTM D5185m00TitaniumppmASTM D5185m00SilverppmASTM D5185m>20<1AuminumppmASTM D5185m>250<1LeadppmASTM D5185m>250<1CopperppmASTM D5185m>502<1TinppmASTM D5185m>502<1VanadiumppmASTM D5185m>15<10White Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089SiliconppmASTM D5185m>2089Sulfurscalar*VisualNONENONENONESolitscalar*VisualNONENONENONEDebrisscalar*VisualNORNORMLNORMLAppearancescalar*VisualNORNORMLNORMLAppearancescalar*VisualNORNORMLNORMLBoronppmASTM D5185m745204207MolybdenumppmASTM D5185m000MaganeseppmASTM D5185m1<1<1 <t< th=""><th>-</th><th></th><th></th><th></th><th>-</th><th>÷</th><th></th></t<>	-				-	÷	
Titanium         ppm         ASTM D5185m         0         0         0            Silver         ppm         ASTM D5185m         >25         0         <1            Aluminum         ppm         ASTM D5185m         >25         0         <1            Lead         ppm         ASTM D5185m         >50         2         <1            Copper         ppm         ASTM D5185m         >50         2         <1            Yanadium         ppm         ASTM D5185m         >50         2         <1            Vanadium         ppm         ASTM D5185m         >50         2         3            Vanadium         ppm         ASTM D5185m         >20         8         9            Vanadium         ppm         ASTM D5185m         >20         8         9            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         8         9            Soliton         scalar         *Visual         NONE <th></th> <th>ppm</th> <th></th> <th>&gt;10</th> <th>-</th> <th>-</th> <th></th>		ppm		>10	-	-	
Silver         ppm         ASTM D5185m         0         0         0            Aluminum         ppm         ASTM D5185m         >25         0         <1            Lead         ppm         ASTM D5185m         >25         0         <1            Copper         ppm         ASTM D5185m         >50         2         <1            Tin         ppm         ASTM D5185m         >15         <1         <1            Vanadium         ppm         ASTM D5185m         >15         <1         0            White Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >25         2         3            Silicon         ppm         ASTM D5185m         >20         8         9            Silicon         ppm         ASTM D5185m         >20         8         9            Silit         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NOR					-	÷	
Aluminum         ppm         ASTM D5185m         >25         0         <1		ppm			-		
Lead         ppm         ASTM D5185m         >25         0         <1					-	÷	
Copper         ppm         ASTM D5185m         >50         2         <1		ppm			-		
Tin         ppm         ASTM D5185m         >15         <1					-		
Vanadium         ppm         ASTM D5185m         <1	••	ppm			_		
White Metal Yellow Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m<>2523PotassiumppmASTM D5185m<>2089WaterWC Method<>0.1NEGNEGSilitscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLFmulsified Waterscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m76BoronppmASTM D5185m745204207BariumppmASTM D5185m00MolybdenumppmASTM D5185m1<1<1MaganesiumppmASTM D5185m1<1<1PhosphorusppmASTM D5185m329ZaiciumppmASTM D5185m1<1<1MagnesiumppmASTM D5185m1<1<1PhosphorusppmASTM D5185m329ZincppmASTM D51		ppm		>15			
Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         8         9            Potassium         ppm         ASTM D5185m         >20         8         9            Water         WC Method         >0.1         NEG         NEG            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NONE         NORE         NORE            Appearance         scalar         *Visual         NORML         NORML         NORML            Odor         scalar         *Visual         NORML         NORML         NORML            Boron         ppm         ASTM D5185m         0.1         NEG             Boron         ppm         ASTM D5185m         745         204         207            Molybdenum         ppm         ASTM D5			ASTM D5185m				
SiliconppmASTM D5185m>2523PotassiumppmASTM D5185m>2089WaterWC Method>0.1NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m>0.1NEGNEGBoronppmASTM D5185m745204207MalybdenumppmASTM D5185m745204207ManganeseppmASTM D5185m0.00ManganeseppmASTM D5185m1<1<1PhosphorusppmASTM D5185m1<1<1ZincppmASTM D5185m0.1<10SulfurppmASTM D5185m0.4417379SulfurppmASTM D5185m0.62.142.05		scalar			-	NONE	
Potassium         ppm         ASTM D5185m         >20         8         9            Water         WC Method         >0.1         NEG         NEG            Silt         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NONE         NONE         NONE            Appearance         scalar         *Visual         NORM         NORML         NORML            Odor         scalar         *Visual         NORM         NORML         NORML            Godor         scalar         *Visual         NORM         NORML         NORML            Molybuter         scalar         *Visual         NORM         NORML         NORML            Boron         ppm         ASTM D5185m         0         0         0            Molybdenum         ppm         ASTM D5185m         745         204         207            Magnesium         ppm         ASTM D5185m	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
WaterWC Method>0.1NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m9576BoronppmASTM D5185m745204207BariumppmASTM D5185m745204207MolybdenumppmASTM D5185m0.00MaganeseppmASTM D5185m1<1<1PhosphorusppmASTM D5185m329ZincppmASTM D5185m0.1<10SulfurppmASTM D5185m0.1<10Acid Number (AN)mg KOHgASTM D5185m0.6<1417379SulfurppmASTM D5185m0.6<1417<2.055	Silicon	maa	ASTM D5185m	>25	2	3	
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Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m9576BoronppmASTM D5185m745204207BariumppmASTM D5185m745204207MolybdenumppmASTM D5185m0.00ManganeseppmASTM D5185m0.000CalciumppmASTM D5185m1<1<1PhosphorusppmASTM D5185m329ZincppmASTM D5185m0.1<10SulfurppmASTM D5185m0.4417379Acid Number (AN)mg KOHyASTM D8045.06<0.2.14<0.2.05			ASTM D5185m	>20	8	9	
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m9576BoronppmASTM D5185m745204207BariumppmASTM D5185m745204207MolybdenumppmASTM D5185m74500ManganeseppmASTM D5185m0.000MagnesiumppmASTM D5185m1<1<1PhosphorusppmASTM D5185m329ZincppmASTM D5185m0.1<10SulfurppmASTM D5185m0.1<10Acid Number (AN)mg KOHzASTM D5185m0.6<0SulfurppmASTM D5185m0.1<10SulfurppmASTM D5185m0.6<117379	Water	ppm	ASTM D5185m WC Method	>20 >0.1	8 NEG	9 NEG	
Odorscalar*VisualNORMLNORMLNORMLNORMLIEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m95766BoronppmASTM D5185m745204207BariumppmASTM D5185m745204207MolybdenumppmASTM D5185m0.000ManganeseppmASTM D5185m0.000CalciumppmASTM D5185m1<1<1<PhosphorusppmASTM D5185m329ZincppmASTM D5185m0.1<10.0SulfurppmASTM D5185m0.1<110Acid Number (AN)mg KOH2ASTM D8045.06<0SulfurppmASTM D5185m0.4<117379Acid Number (AN)mg KOH2.05.06<0	Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.1 NONE	8 NEG NONE	9 NEG NONE	
Emulsified Water         scalar         *Visual         >0.1         NEG         NEG            Sodium         ppm         ASTM D5185m         95         76            Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         745         204         207            Molybdenum         ppm         ASTM D5185m         0.0         0             Manganese         ppm         ASTM D5185m         0.0         0         0            Magnesium         ppm         ASTM D5185m         0.0         0             Phosphorus         ppm         ASTM D5185m         1         <1         <1            Phosphorus         ppm         ASTM D5185m         1         <1         <1            Zinc         ppm         ASTM D5185m         0.1         <1         0            Sulfur         ppm         ASTM D5185m         0.1         <1         0            Acid Number (AN)         mgKOH2         ASTM D5185m         240	Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.1 NONE NONE	8 NEG NONE NONE	9 NEG NONE NONE	
Sodium         ppm         ASTM D5185m         95         76            Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         745         204         207            Molybdenum         ppm         ASTM D5185m         0.0         0            Manganese         ppm         ASTM D5185m         0.0         0         0            Magnesium         ppm         ASTM D5185m         0.0         0             Magnesium         ppm         ASTM D5185m         0.0         0             Phosphorus         ppm         ASTM D5185m         1         <1         <1            Phosphorus         ppm         ASTM D5185m         3         2         9            Zinc         ppm         ASTM D5185m         0.1         <1         0            Sulfur         ppm         ASTM D5185m         240         417         379            Acid Number (AN)         mgKOH/g         ASTM D8045         .06         2.14         2.05 <th>Water Silt Debris Sand/Dirt</th> <th>ppm scalar scalar scalar</th> <th>ASTM D5185m WC Method *Visual *Visual *Visual</th> <th>&gt;20 &gt;0.1 NONE NONE NONE</th> <th>8 NEG NONE NONE NONE</th> <th>9 NEG NONE NONE NONE</th> <th></th>	Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.1 NONE NONE NONE	8 NEG NONE NONE NONE	9 NEG NONE NONE NONE	
Boron         ppm         ASTM D5185m         O         0            Barium         ppm         ASTM D5185m         745         204         207            Molybdenum         ppm         ASTM D5185m         0.0         0         0            Manganese         ppm         ASTM D5185m         0.0         0         0            Magnesium         ppm         ASTM D5185m         0.0         0         0            Calcium         ppm         ASTM D5185m         0.0         0         0            Phosphorus         ppm         ASTM D5185m         1         <1         <1            Zinc         ppm         ASTM D5185m         3         2         9            Sulfur         ppm         ASTM D5185m         0.1         <1         0            Acid Number (AN)         mg KOH/g         ASTM D5185m         0.4         <1	Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.1 NONE NONE NONE	8 NEG NONE NONE NONE NORML	9 NEG NONE NONE NONE NORML	 
Barium         ppm         ASTM D5185m         745         204         207            Molybdenum         ppm         ASTM D5185m         0.0         0         0            Manganese         ppm         ASTM D5185m         0.0         0         0            Magnesium         ppm         ASTM D5185m         0.0         0         0            Calcium         ppm         ASTM D5185m         1         <1         <1            Phosphorus         ppm         ASTM D5185m         1         <1         <1            Zinc         ppm         ASTM D5185m         0.1         <1         0            Sulfur         ppm         ASTM D5185m         0.1         <1         0            Acid Number (AN)         mg KOH2         ASTM D5185m         0.1         <1         0	Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.1 NONE NONE NORML NORML	8 NEG NONE NONE NORE NORML	9 NEG NONE NONE NONE NORML NORML	 
Molybdenum         ppm         ASTM D5185m         0.0         0         0            Manganese         ppm         ASTM D5185m         0.0         0         0            Magnesium         ppm         ASTM D5185m         0.0         0         0            Magnesium         ppm         ASTM D5185m         0.0         0         0            Calcium         ppm         ASTM D5185m         1         <1         <1            Phosphorus         ppm         ASTM D5185m         3         2         9            Zinc         ppm         ASTM D5185m         0.1         <1         0            Sulfur         ppm         ASTM D5185m         240         417         379            Acid Number (AN)         mg KOH/g         ASTM D8045         .06         <2.14         <2.05	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.1 NONE NONE NORML NORML	8 NEG NONE NONE NORML NORML NEG	9 NEG NONE NONE NORML NORML NEG	
Manganese         ppm         ASTM D5185m         0         0            Magnesium         ppm         ASTM D5185m         0.0         0         0            Calcium         ppm         ASTM D5185m         1         <1	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.1 NONE NONE NORML NORML	8 NEG NONE NONE NORML NORML NEG 95	9 NEG NONE NONE NORML NORML NEG 76	
Magnesium         ppm         ASTM D5185m         0.0         0         0            Calcium         ppm         ASTM D5185m         1         <1	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.1 NONE NONE NORML >0.1	8 NEG NONE NONE NORML NORML NEG 95 0	9 NEG NONE NONE NORML NORML NEG 76 0	
Calcium         ppm         ASTM D5185m         1         <1	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML >0.1	8 NEG NONE NONE NORML NORML NEG 95 0 204	9 NEG NONE NONE NORML NORML NEG 76 0 207	
Phosphorus         ppm         ASTM D5185m         3         2         9            Zinc         ppm         ASTM D5185m         0.1         <1	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML >0.1	8 NEG NONE NONE NORML NORML NEG 95 0 204 0	9 NEG NONE NONE NORML NORML NEG 76 0 207 0	
Zinc         ppm         ASTM D5185m         0.1         <1	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML >0.1 745 0.0	8 NEG NONE NONE NORML NORML NEG 95 0 204 0 204	9 NEG NONE NONE NORML NORML NEG 76 0 207 0 207	
Sulfur         ppm         ASTM D5185m         240         417         379            Acid Number (AN)         mg KOH/g         ASTM D8045         .06 <b>2.14 2</b> .05	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 ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML >0.1	8 NEG NONE NONE NORML NORML NEG 95 0 204 0 0 0 0	9 NEG NONE NONE NORML NORML NEG 76 0 207 0 207 0 0	
Acid Number (AN) mg KOH/g ASTM D8045 .06	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML >0.1	8 NEG NONE NONE NORML NORML NEG 95 0 204 0 204 0 0 0 204	9 NEG NONE NONE NORML NORML NEG 76 0 207 0 207 0 0 0 0 207	
Acid Number (AN) mg KOH/g ASTM D8045 .06	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 ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML >0.1 745 0.0 0.0 1 3	8 NEG NONE NONE NORML NORML 95 0 204 0 204 0 0 0 0 204 204 204 204 204	9 NEG NONE NONE NORML NORML NEG 207 0 207 0 0 0 0 0 1 9	
	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML >0.1 745 0.0 1.0 3 0.0 1 3 0.1	8 NEG NONE NONE NORML NORML NEG 95 0 204 0 204 0 0 204 0 0 204 2 0 204 2 0 204 2 0 2 0	9 NEG NONE NONE NORML NORML NEG 76 0 207 0 207 0 0 0 207 0 0 207 0 0 207	
	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML >0.1 745 0.0 1. 3 0.0 1 3 0.1 240	8 NEG NONE NONE NORML NORML 95 0 204 0 204 0 204 0 204 204 0 204 204 2	9 NEG NONE NONE NORML NORML NEG 76 0 207 0 207 0 0 207 0 0 207 0 0 207 0 0 207 0 0 0 0	

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