

# FORT HEALTHCARE CH 1 CIRC 2 SOUTH (S/N Stnu0712000183)

## **Refrigeration Compressor**

## TES SYN 295 (--- GAL)

## RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

#### **WEAR**

All component wear rates are normal.

### **CONTAMINATION**

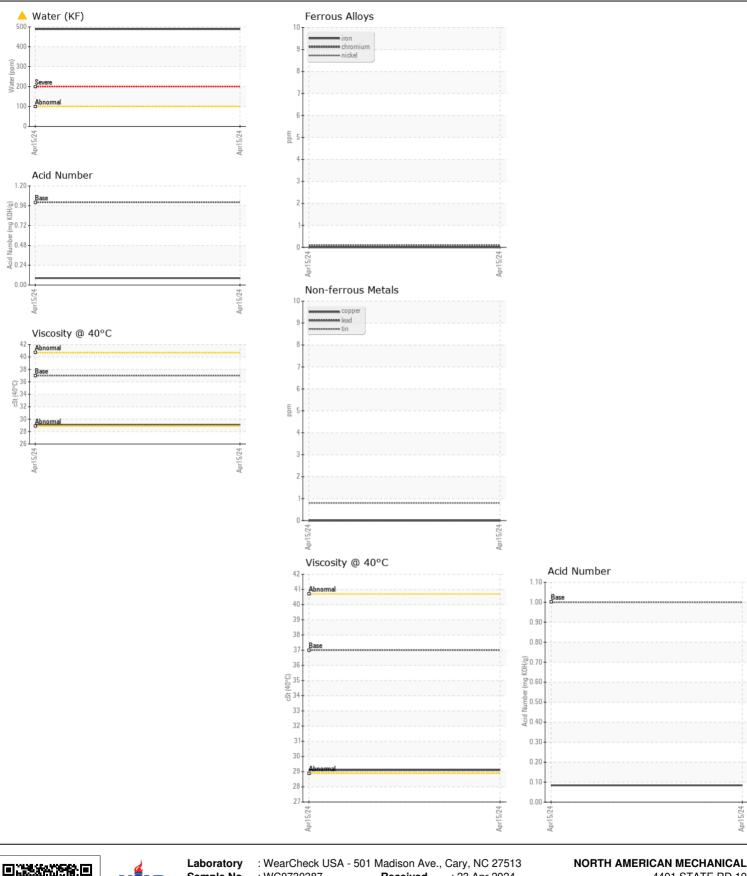
There is a trace of moisture present in the oil.

# FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

TestUOMMethodLimitAbrCurrentHistory1History2Sample NumberClient Info15 Apr 2024Machine AgehrsClient Info0Oil AgehrsClient Info0Filter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter AgehrsClient InfoN/AFilter ChangedClient InfoN/ASample StatusVision>2<-1IronppmASTM D5185m>80NickelppmASTM D5185m>20AluminumppmASTM D5185m>20AluminumppmASTM D5185m>20LeadppmASTM D5185m>20VanadumppmASTM D5185m>4<1VanadumppmASTM D5185m>20VanadumppmASTM D5185m>20SiliconppmASTM D5185m>20Yeilow Metalscalar'VisualNONENONESiliconppmASTM D5185m>1<1Siliconppm <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Sample DateClient InfoIs Apr 2024Machine AgehrsClient Info0Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusViaIronppmASTM D5185m>2NickelppmASTM D5185m>2NickelppmASTM D5185m>2SilverppmASTM D5185m>20AluminumppmASTM D5185m>20LeadppmASTM D5185m>20VanadiumppmASTM D5185m>4VanadiumppmASTM D5185m>4Valdendscalar'VisualNONENONESiliconppmASTM D5185m>1YallowppmASTM D5185m>202YallowppmASTM D5185m>202YallowppmASTM D5185m>202Yallowppm <t< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></t<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age         hrs         Client Info         0             Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         N/A             Filter Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         Client Info         N/A             Iron         ppm         ASTM D5185m         >2         <1             Nickel         ppm         ASTM D5185m         >2         <0             Aluminum         ppm         ASTM D5185m         >2         0             Lead         ppm         ASTM D5185m         >2         0             Vanaduium         ppm         ASTM D5185m         >2         0             Vanaduium         ppm         ASTM D5185m         >1              Vanaduium         ppm         ASTM D5185m <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>WC0730387</th> <th></th> <th></th>	Sample Number		Client Info		WC0730387		
Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         N/A             Gil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         MARGINAL             Iron         ppm         ASTM D5185m         >2         <1            Nickel         ppm         ASTM D5185m         >2         <1            Nickel         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >3         <1             Vanadium         ppm         ASTM D5185m         >4         <1            Vanadium         ppm         ASTM D5185m         >15         <1	Sample Date		Client Info		15 Apr 2024		
Filter Age         hrs         Client Info         0             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         MARGINAL             Iron         ppm         ASTM D5185m         >2         <1            Nickel         ppm         ASTM D5185m         >2         <1            Nickel         ppm         ASTM D5185m         >2         <1             Silver         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >2         0             Vanadium         ppm         ASTM D5185m         >4         <1             Yellow Metal         scalar         Yisual         NONE         NONE             Yellow Metal         scalar         Yisual         NONE         NONE             Yellow Metal         scalar         Yisual         NONE </th <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th></th> <th></th>	Machine Age	hrs	Client Info		0		
Oli Changed Filter ChangedClient InfoN/ASample StatusClient InfoN/AIronppmASTM D5185m>80ChromiumppmASTM D5185m>2<1NickelppmASTM D5185m>2<1NickelppmASTM D5185m>2<0TitaniumppmASTM D5185m>20AluminumppmASTM D5185m>20AluminumppmASTM D5185m>20VanadiumppmASTM D5185m>20VanadiumppmASTM D5185m>4<1Yellow Metalscalar'VisualNONESiliconppmASTM D5185m>15<1Yellow Metalscalar'VisualNONESiliconppmASTM D5185m>10 <b>A</b> 00SiliconppmASTM D5185m>10 <b>A</b> 00SiliconppmASTM D5185m>10 <b>A</b> 00Solitscalar'VisualNONEPotassiumppmASTM D5185m>0ADAppearancescalar'VisualNORML <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th></th> <th></th>	Oil Age	hrs	Client Info		0		
Filter Changed Sample StatusClient InfoN/AIronppmASTM D5185m<>80IronppmASTM D5185m<>2<1NickelppmASTM D5185m<>2<1NickelppmASTM D5185m<>20AuminumppmASTM D5185m<>20AluminumppmASTM D5185m<>20AluminumppmASTM D5185m<>20AuminumppmASTM D5185m<>20AuminumppmASTM D5185m<>20YanadiumppmASTM D5185m<>4<1VanadiumppmASTM D5185m<>4<1Yellow Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m<>15<1PotassiumppmASTM D5185m>202Silitscalar*VisualNONENONESand/Dirtscalar*VisualNONENONESolitscalar*VisualNORMNORMSolitscalar*VisualNORMNORMAppearancescalar*Visual	Filter Age	hrs	Client Info		0		
Sample StatusMARGINALIronppmASTM D5185m>80ChromiumppmASTM D5185m<<1NickelppmASTM D5185m<<1TitaniumppmASTM D5185m<0SilverppmASTM D5185m>200AluminumppmASTM D5185m>20AluminumppmASTM D5185m>20AluminumppmASTM D5185m>20CopperppmASTM D5185m>20VanadiumppmASTM D5185m>4<1VanadiumppmASTM D5185m>4<1VanadiumppmASTM D5185m>15<1VanadiumppmASTM D5185m>15<1VanadiumppmASTM D5185m>202VanadiumppmASTM D5185m>202SiliconppmASTM D5185m>202SiliconppmASTM D5185m>202Solitscalar*VisualNONENONESolitscalar*VisualNORMNORMDebrisscalar*VisualNORM <t< th=""><th>Oil Changed</th><th></th><th>Client Info</th><th></th><th>N/A</th><th></th><th></th></t<>	Oil Changed		Client Info		N/A		
Iron         ppm         ASTM D5185m         >8         0             Chromium         ppm         ASTM D5185m         >2         <1             Nickel         ppm         ASTM D5185m         >2         <1             Titanium         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >2         0             Lead         ppm         ASTM D5185m         >2         0             Vanadium         ppm         ASTM D5185m         >2         0             Vanadium         ppm         ASTM D5185m         >2         0             Vanadium         ppm         ASTM D5185m         >4         <1             Vanadium         ppm         ASTM D5185m         >15         <1             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D518	Filter Changed		Client Info		N/A		
Chromium         ppm         ASTM D5185m         > 2         <1	Sample Status				MARGINAL		
Chromium         ppm         ASTM D5185m         > 2         <1					•		
Nickel         ppm         ASTM D5185m         <1					-		
Titanium         ppm         ASTM D5185m         0            Silver         ppm         ASTM D5185m         >2         0            Aluminum         ppm         ASTM D5185m         >3         <1            Aluminum         ppm         ASTM D5185m         >2         0            Lead         ppm         ASTM D5185m         >2         0            Copper         ppm         ASTM D5185m         >4         <1            Vanadium         ppm         ASTM D5185m         >4         <1            Vanadium         ppm         ASTM D5185m         >4         0            Vanadium         ppm         ASTM D5185m         >15         <1            Vanadium         ppm         ASTM D5185m         >15         <1            Vellow Metal         scalar         *Visual         NONE         NONE            Silicon         ppm         ASTM D5185m         >10             Water         %         ASTM D5185m         NONE         I				>2			
Silver         ppm         ASTM D5185m         >2         0            Aluminum         ppm         ASTM D5185m         >3         <1							
Aluminum         ppm         ASTM D5185m         >3         <1				. 2	-		
Lead         ppm         ASTM D5185m         >2         0            Copper         ppm         ASTM D5185m         >8         0            Tin         ppm         ASTM D5185m         >4         <1            Vanadium         ppm         ASTM D5185m         >4         <1            White Metal         scalar         *Visual         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE            Silicon         ppm         ASTM D5185m         >15         <1             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D504         >0.0 <b>4</b> 89             Water         %         ASTM D6304         >100 <b>4</b> 89             Solit         scalar         *Visual         NONE         ILGHT             Debris         scalar         *Visual         NORM         NORML             Appearance </th <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>					-		
Copper         ppm         ASTM D5185m         >8         0            Tin         ppm         ASTM D5185m         >4         <1            Vanadium         ppm         ASTM D5185m         >4         <1            White Metal         scalar         *Visual         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE            Silicon         ppm         ASTM D5185m         >15         <1             Potassium         ppm         ASTM D5185m         >20         2             Water         %         ASTM D5185m         >20         2             Water         %         ASTM D6304         >.001 <b>A</b> 0.048             Silt         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORM         NORML             Appearance         scalar         *Visual         NORML         NORML </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Tin         ppm         ASTM D5185m         >4         <1					-		
Vanadium         ppm         ASTM D5185m         0            White Metal         scalar         *Visual         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >15         <1             Potassium         ppm         ASTM D5185m         >20         2             Water         %         ASTM D6304         >0.01         ▲ 0.048             ppm Water         ppm         ASTM D6304         >100         ▲ 489             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         NORE             Appearance         scalar         *Visual         NORM         NORML             Odor         scalar         *Visual         NORM         NORML             Sodium         ppm         ASTM D5185m         0 <t< th=""><th>••</th><th></th><th></th><th></th><th>-</th><th></th><th></th></t<>	••				-		
White Metal Yellow Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONESiliconppmASTM D5185m>15<1PotassiumppmASTM D5185m>202Water%ASTM D6304>0.01▲ 0.048ppm WaterppmASTM D6304>100▲ 489Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m0BoronppmASTM D5185m00ManganeseppmASTM D5185m00MagnesiumppmASTM D5185m103PhosphorusppmASTM D5185m00MagnesiumppmASTM D5185m1003MagnesiumppmASTM D5185m00PhosphorusppmASTM D5185m00 <t< th=""><th></th><th></th><th></th><th>&gt;4</th><th></th><th></th><th></th></t<>				>4			
Yellow Metal         scalar         'Visual         NONE         NONE            Silicon         ppm         ASTM D5185m<>15         <1             Potassium         ppm         ASTM D5185m<>20         2             Water         %         ASTM D6304<>0.01         <0.048             ppm Water         ppm         ASTM D6304<>100         <0.048             scalar         *Visual         NONE              ppm Water         ppm         ASTM D5304<>100         <0.048             Silt         scalar         *Visual         NONE              Debris         scalar         *Visual         NONE         IGHT             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Boron         ppm         ASTM D5185m         0					-		
Silicon         ppm         ASTM D5185m         >15         <1							
Potassium         ppm         ASTM D5185m         >20         2             Water         %         ASTM D6304         >0.01         ▲ 0.048             ppm Water         ppm         ASTM D6304         >100         ▲ 489             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         LIGHT             Sand/Dirt         scalar         *Visual         NONE         NORE             Appearance         scalar         *Visual         NORM         NORML             Odor         scalar         *Visual         NORM         NORML             Sodium         ppm         ASTM D5185m         NORML              Boron         ppm         ASTM D5185m         0              Malybdenum         ppm         ASTM D5185m         0              Magnesium         ppm		Jouran	•150001	NONE			
Water         %         ASTM D6304         >0.01         ▲         0.048            ppm Water         ppm         ASTM D6304         >100         ▲         489             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         LIGHT             Sand/Dirt         scalar         *Visual         NONE         NORE             Appearance         scalar         *Visual         NORM         NORML             Odor         scalar         *Visual         NORM         NORML             Boron         scalar         *Visual         NOR         NORM             Barium         ppm         ASTM D5185m         0              Malganese         ppm         ASTM D5185m         0         0             Marganese         ppm         ASTM D5185m         0         0             Magnesium	Silicon	ppm	ASTM D5185m	>15	<1		
ppm Water         ppm         ASTM D6304         >100         ▲ 489             Silt         scalar         *Visual         NONE         NONE             Debris         scalar         *Visual         NONE         LIGHT             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORM         NORML             Odor         scalar         *Visual         NORM         NORML             Odor         scalar         *Visual         NORM         NORML             Emulsified Water         scalar         *Visual         >0.01         NEG             Boron         ppm         ASTM D5185m         0              Molybdenum         ppm         ASTM D5185m         0              Manganese         ppm         ASTM D5185m         0         0             Magnesium <t< th=""><th>Potassium</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Potassium						
Siltscalar*VisualNONENONEIIIGHTIIIGHTDebrisscalar*VisualNONELIGHTIIIGHTIIIGHTSand/Dirtscalar*VisualNONENONEIIIGHTIIIGHTAppearancescalar*VisualNORMLNORMLIIIGHTIIIGHTOdorscalar*VisualNORMLNORMLIIIGHTIIIGHTEmulsified Waterscalar*VisualNORMLNORMLIIIGHTIIIGHTSodiumppmASTM D5185mSOIIIGHTIIIGHTIIIGHTBoronppmASTM D5185m0IIIGHTIIIGHTIIIGHTBariumppmASTM D5185m0IIIGHTIIIGHTIIIGHTMalganeseppmASTM D5185m0IIIGHTIIIIGHTIIIGHTMagnesiumppmASTM D5185m100IIIIGHTIIIIGHTIIIIGHTPhosphorusppmASTM D5185m0IIIIGHTIIIIIGHTIIIIIGHTIIIIIASTM D5185m100IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		ррпі	ASTM D5185m	>20	2		
Debrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLDodorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.01NEGSodiumppmASTM D5185m850BoronppmASTM D5185m0BariumppmASTM D5185m00MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m103PhosphorusppmASTM D5185m1003ZincppmASTM D5185m00SulfurppmASTM D5185m00Acid Number (AN)mg KOHgASTM D5185m1.000SulfurppmASTM D5185m1.000SulfurppmASTM D5185m1.000SulfurppmASTM D5185m1.000.084	Water				_		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.01NEGSodiumppmASTM D5185m0BoronppmASTM D5185m0<BariumppmASTM D5185m0<1MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m00MagnesiumppmASTM D5185m1003PhosphorusppmASTM D5185m00ZincppmASTM D5185m00SulfurppmASTM D5185m00Acid Number (AN)mg KOHgASTM D5185m1.000.084		%	ASTM D6304	>0.01	▲ 0.048		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.01NEGSodiumppmASTM D5185m0BoronppmASTM D5185m850BariumppmASTM D5185m0<1MolybdenumppmASTM D5185m00ManganeseppmASTM D5185m00MagnesiumppmASTM D5185m1003PhosphorusppmASTM D5185m1003ZincppmASTM D5185m00SulfurppmASTM D5185m15000SulfurppmASTM D5185m1.000.084	ppm Water	% ppm	ASTM D6304 ASTM D6304	>0.01 >100	_ ▲ 0.048 ▲ 489		
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.01NEGSodiumppmASTM D5185m0BoronppmASTM D5185m850BariumppmASTM D5185m0MolybdenumppmASTM D5185m0ManganeseppmASTM D5185m00MagnesiumppmASTM D5185m103PhosphorusppmASTM D5185m1003ZincppmASTM D5185m00SulfurppmASTM D5185m00Acid Number (AN)mg KOHgASTM D5185m1.000.084SulfurppmASTM D5185m1.000.084	ppm Water Silt	% ppm scalar	ASTM D6304 ASTM D6304 *Visual	>0.01 >100 NONE	<ul> <li>0.048</li> <li>489</li> <li>NONE</li> </ul>		
Emulsified Water         scalar         *Visual         >0.01         NEG            Sodium         ppm         ASTM D5185m         0             Boron         ppm         ASTM D5185m         85         0             Barium         ppm         ASTM D5185m         0              Molybdenum         ppm         ASTM D5185m         0         0             Manganese         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         0         0             Phosphorus         ppm         ASTM D5185m         100         3             Zinc         ppm         ASTM D5185m         100         3             Sulfur         ppm         ASTM D5185m         0         0             Acid Number (AN)         mg KOHg         ASTM D5185m         100         3	ppm Water Silt Debris	% ppm scalar scalar	ASTM D6304 ASTM D6304 *Visual *Visual	>0.01 >100 NONE NONE	<ul> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> </ul>		
Sodium         ppm         ASTM D5185m         0            Boron         ppm         ASTM D5185m         85         0            Barium         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         1         4             Phosphorus         ppm         ASTM D5185m         100         3             Zinc         ppm         ASTM D5185m         100         3             Sulfur         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         0         0             Sulfur         ppm	ppm Water Silt Debris Sand/Dirt	% ppm scalar scalar scalar	ASTM D6304 ASTM D6304 *Visual *Visual *Visual	>0.01 >100 NONE NONE NONE	<ul> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NONE</li> </ul>		  
Boron         ppm         ASTM D5185m         85         0             Barium         ppm         ASTM D5185m         0         <1             Molybdenum         ppm         ASTM D5185m         0         0             Manganese         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         0         0             Calcium         ppm         ASTM D5185m         100         3             Phosphorus         ppm         ASTM D5185m         200         288             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         0         0             Acid Number (AN)         mg KOHg         ASTM D5185m         1.00         0.084	ppm Water Silt Debris Sand/Dirt Appearance	% ppm scalar scalar scalar scalar	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual	>0.01 >100 NONE NONE NONE	<ul> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> </ul>	  	  
Boron         ppm         ASTM D5185m         85         0             Barium         ppm         ASTM D5185m         0         <1             Molybdenum         ppm         ASTM D5185m         0         0             Manganese         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         0         0             Calcium         ppm         ASTM D5185m         100         3             Phosphorus         ppm         ASTM D5185m         200         288             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         0         0             Acid Number (AN)         mg KOHg         ASTM D5185m         1.00         0.084	ppm Water Silt Debris Sand/Dirt Appearance Odor	% ppm scalar scalar scalar scalar scalar	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual	>0.01 >100 NONE NONE NORML NORML	<ul> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> </ul>	  	   
Barium         ppm         ASTM D5185m         0         <1	ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	% ppm scalar scalar scalar scalar scalar	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual	>0.01 >100 NONE NONE NORML NORML	<ul> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> </ul>		
Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         1         4             Magnesium         ppm         ASTM D5185m         100         3             Calcium         ppm         ASTM D5185m         100         3             Phosphorus         ppm         ASTM D5185m         200         288             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         1500         0             Acid Number (AN)         mg KOHg         ASTM D974         1.0         0.084	ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	% ppm scalar scalar scalar scalar scalar scalar	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.01 >100 NONE NONE NORML NORML >0.01	<ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> </ul>		
Manganese         ppm         ASTM D5185m         0         0            Magnesium         ppm         ASTM D5185m         1         4             Calcium         ppm         ASTM D5185m         100         3             Phosphorus         ppm         ASTM D5185m         200         288             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         0.0         0             Acid Number (AN)         mg KOHg         ASTM D974         1.0         0.084	ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	% ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.01</li> <li>&gt;100</li> <li>NONE</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.01</li> <li>85</li> </ul>	<ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> <li>0</li> </ul>		
Magnesium         ppm         ASTM D5185m         1         4             Calcium         ppm         ASTM D5185m         100         3             Phosphorus         ppm         ASTM D5185m         200         288             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         1500         0             Acid Number (AN)         mg KOH/g         ASTM D974         1.0         0.084	ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	% ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.01</li> <li>&gt;100</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.01</li> <li>85</li> <li>0</li> </ul>	<ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> <li>0</li> <li>&lt;1</li> </ul>		
Calcium         ppm         ASTM D5185m         100         3            Phosphorus         ppm         ASTM D5185m         200         288             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         1500         0             Acid Number (AN)         mg KOHg         ASTM D974         1.0         0.084	ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	% ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.01</li> <li>&gt;100</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.01</li> <li>85</li> <li>0</li> <li>0</li> </ul>	<ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> <li>&lt;1</li> <li>0</li> </ul>		
Phosphorus         ppm         ASTM D5185m         200         288             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         1500         0             Acid Number (AN)         mg KOHg         ASTM D974         1.0         0.084	ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	% ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.01</li> <li>&gt;100</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.01</li> <li>85</li> <li>0</li> <li>0</li> <li>0</li> </ul>	<ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> <li>0</li> <li>&lt;1</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> </ul>		
Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         1500         0             Acid Number (AN)         mg KOH/g         ASTM D974         1.0         0.084	ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	% % ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.01</li> <li>&gt;100</li> <li>NONE</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.01</li> <li>85</li> <li>0</li> <li>0</li> <li>0</li> <li>1</li> </ul>	<ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NORML</li> <li>0</li> <li>0</li> <li>1</li> <li>0</li> <li>0</li> <li>4</li> </ul>		
Sulfur         ppm         ASTM D5185m         1500         O             Acid Number (AN)         mg KOH/g         ASTM D974         1.0         0.084	ppm 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 ppm ppm	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.01</li> <li>&gt;100</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.01</li> <li>85</li> <li>0</li> <li>0</li> <li>0</li> <li>1</li> <li>100</li> </ul>	<ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NORML</li> <li>0</li> <li>0</li> <li>&lt;1</li> <li>0</li> <li>0</li> <li>4</li> <li>3</li> </ul>		
Acid Number (AN) mg KOH/g ASTM D974 1.0 0.084	ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	% % ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.01</li> <li>&gt;100</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.01</li> <li>35</li> <li>0</li> <li>0</li> <li>1</li> <li>100</li> <li>200</li> </ul>	<ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NORML</li> <li>0</li> <li>0</li> <li>210</li> <li>0</li> <li>4</li> <li>3</li> <li>288</li> </ul>		
	ppm 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 scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.01</li> <li>&gt;100</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.01</li> <li>85</li> <li>0</li> <li>0</li> <li>1</li> <li>100</li> <li>200</li> <li>0</li> <l< th=""><th><ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> <li>21</li> <li>0</li> <li>4</li> <li>3</li> <li>288</li> <li>0</li> </ul></th><th></th><th></th></l<></ul>	<ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> <li>21</li> <li>0</li> <li>4</li> <li>3</li> <li>288</li> <li>0</li> </ul>		
	ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Malybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	% % % % % % % % % % % % % % % % % % %	ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.01</li> <li>&gt;100</li> <li>NONE</li> <li>NONE</li> <li>NONE</li> <li>NORM</li> <li>&gt;0.01</li> <li>&gt;0.01</li> <li>0</li> <li>0</li> <li>1</li> <li>100</li> <li>200</li> <li>0</li> <li>1500</li> </ul>	<ul> <li>0.048</li> <li>0.048</li> <li>489</li> <li>NONE</li> <li>LIGHT</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>0</li> <li>21</li> <li>0</li> <li>4</li> <li>3</li> <li>288</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> </ul>		

Contact/Location: STACEY QUAM - NORDEF



Sample No. Received 4401 STATE RD 19 : WC0730387 : 23 Apr 2024 Lab Number : 06157747 Tested WINDSOR, WI : 24 Apr 2024 Unique Number : 10993170 Diagnosed : 25 Apr 2024 - Jonathan Hester US 53598 Test Package : IND 2 Contact: STACEY QUAM Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. squam@naminc.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (608)240-8906 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (608)240-8965

Contact/Location: STACEY QUAM - NORDEF Page 2 of 2