

# WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

#### Machine Id **RESIN R3** Component **Hydraulic System** Fluid {not provided} (--- GAL) **RECOMMENDATION**

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

#### **WEAR**

The iron level is abnormal. All other component wear rates are normal.

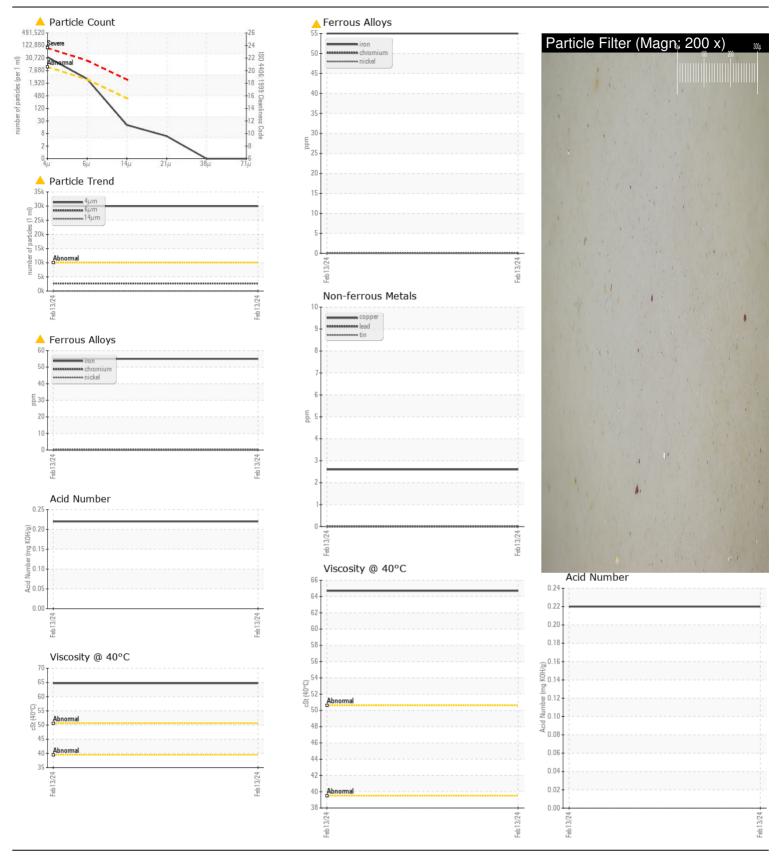
## CONTAMINATION

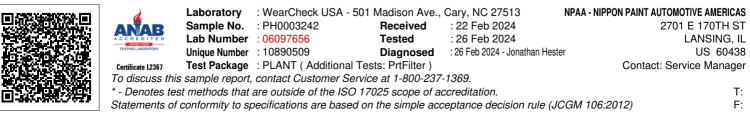
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### **FLUID CONDITION**

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

Test         UOM         Method         Limit/Ab         Current         History1         History2           Sample Number         Client Info         13 Feb 2024             Machine Age         hrs         Client Info         0             Oil Age         hrs         Client Info         0             Oil Age         hrs         Client Info         N/A             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status          ABNORIMAL             Sample Status               Matter         ppm         ASTM D5185<>-20         0								
Sample Number         Client Info         PH0003242             Machine Age         hrs         Client Info         0             Machine Age         hrs         Client Info         0             Filter Age         hrs         Client Info         N/A             Filter Age         hrs         Client Info         N/A             Sample Status         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         Client Info         N/A             Sitor         Ppm         ASTM D5185m         >20         0             Silver         ppm         ASTM D5185m         >20         0             Aluminum         ppm         ASTM D5185m         >20         0	Test	UOM	Method	Limit/Abn	Current	History1	History2	
Machine Age Oil Age Filter Age         hrs         Client Info         0             Filter Age Oil Changed         Client Info         0              Filter Changed         Client Info         N/A              Filter Changed         Client Info         N/A              Sample Status         ABNORMAL              Iron         ppm         ASTM D5185m         >20         Q             Nickel         ppm         ASTM D5185m         >20         Q             Silver         ppm         ASTM D5185m         >20         Q             Copper         ppm         ASTM D5185m         >20         Q             Vanaduim         ppm         ASTM D5185m         >20         Q             Valead         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE <tr< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>PH0003242</th><th></th><th></th></tr<>	Sample Number		Client Info		PH0003242			
Oil Age         hrs         Client Info         0             Filter Age         hrs         Client Info         0             Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         ABNORMAL             Iron         ppm         ASTM D5185m         >20         < <td>            Nickel         ppm         ASTM D5185m         &gt;20         0             Aluminum         ppm         ASTM D5185m         &gt;20         0             Aluminum         ppm         ASTM D5185m         &gt;20         0             Aluminum         ppm         ASTM D5185m         &gt;20         0             Vanadium         ppm         ASTM D5185m         &gt;20         0             Vanadium         ppm         ASTM D5185m         &gt;20         0             Value         scalar         'Visual         NONE</td>	Nickel         ppm         ASTM D5185m         >20         0             Aluminum         ppm         ASTM D5185m         >20         0             Aluminum         ppm         ASTM D5185m         >20         0             Aluminum         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Value         scalar         'Visual         NONE	Sample Date		Client Info		13 Feb 2024		
Filter Åge Oli Changed         hrs         Client Info         N/A             Filter Changed         Client Info         N/A              Sample Status         ABNORMAL               Iron         ppm         ASTM D5185m<>20         ▲ 55             Chromium         ppm         ASTM D5185m         200         0             Nickel         ppm         ASTM D5185m         200         0             Silver         ppm         ASTM D5185m         200         0             Aluminum         ppm         ASTM D5185m         >200         0             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >15         <1             Valeu         scalar         *Visual         NONE	Machine Age	hrs	Client Info		0			
Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         ASTM D5185m<>20         ABNORMAL             Iron         ppm         ASTM D5185m<>20         C1             Nickel         ppm         ASTM D5185m<         20         0             Nickel         ppm         ASTM D5185m         20         0             Aluminum         ppm         ASTM D5185m         20         0             Aluminum         ppm         ASTM D5185m<>20         0             Copper         ppm         ASTM D5185m<>20         0             Yanadium         ppm         ASTM D5185m         20         0             Yanadium         ppm         ASTM D5185m<>15         <1             Yanadium         ppm         ASTM D5185m<>20         0             Yanadium         ppm         ASTM D5185m<>20	Oil Age	hrs	Client Info		0			
Filter Changed Sample Status         Client Info         N/A             Iron         ppm         ASTM D5185m         >20         ▲ 55             Iron         ppm         ASTM D5185m         >20         Q         1            Nickel         ppm         ASTM D5185m         >20         Q             Nickel         ppm         ASTM D5185m         Q         Q             Aluminum         ppm         ASTM D5185m         >20         Q             Aluminum         ppm         ASTM D5185m         >20         Q             Aluminum         ppm         ASTM D5185m         >20         Q             Vanadium         ppm         ASTM D5185m         >20	Filter Age	hrs	Client Info		0			
Filter Changed         Client Info         N/A          ABNORMAL            Sample Status         ASTM D5185m         >20         ▲ 55             Iron         ppm         ASTM D5185m         >20         <1             Nickel         ppm         ASTM D5185m         >20         0             Nickel         ppm         ASTM D5185m         20         0             Aluminum         ppm         ASTM D5185m         >20         0             Aluminum         ppm         ASTM D5185m         >20         0             Qandaium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20	Oil Changed		Client Info		N/A			
Iron       ppm       ASTM D5185m< >20       ▲ 55           Chromium       ppm       ASTM D5185m       >20       <1           Nickel       ppm       ASTM D5185m       >20       0           Titanium       ppm       ASTM D5185m       20       0           Silver       ppm       ASTM D5185m       >20       0           Aluminum       ppm       ASTM D5185m       >20       0           Lead       ppm       ASTM D5185m       >20       0           Vanadium       ppm       ASTM D5185m       >20       0           Vanadium       ppm       ASTM D5185m       >20       0           Vellow Metal       scalar       *Visual       NONE       NONE           Silicon       ppm       ASTM D5185m       >20       0           Silicon       ppm       ASTM D7647       10000       29992           Particles >4µm       ASTM D7647	-		Client Info		N/A			
Chromium         ppm         ASTM D5185m         >20         <1	Sample Status				ABNORMAL			
Chromium         ppm         ASTM D5185m         >20         <1								
Nickel         ppm         ASTM D5185m         >20         0             Titanium         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         >20         0             Auminum         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         3             Copper         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >10              Vanadium         ppm         ASTM D5185m         >15         <1             Vanadium         ppm         ASTM D5185m         >20         0             Vallow Metal         scalar         *Visual         NONE             Soliticon         ppm         ASTM D7647         >20	Iron	ppm	ASTM D5185m	>20	🔺 55			
Titanium         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         >20         0             Aluminum         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         0             Copper         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >10              Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Valeor         WC Method         >0.05         NEG             Particles >4µm         ASTM D7647         >20         0         <	Chromium	ppm	ASTM D5185m	>20	<1			
Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m<>20         0             Lead         ppm         ASTM D5185m<>20         0             Copper         ppm         ASTM D5185m<>20         0             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >15         <1             Yellow Metal         scalar         *Visual         NONE         NONE             Potassium         ppm         ASTM D7647         >20         0             Particles >4µm         ASTM D7647         >20         0             Particles >71µm         ASTM D7647         >20         0	Nickel	ppm	ASTM D5185m	>20	0			
Aluminum         ppm         ASTM D5185m         >20         0             Lead         ppm         ASTM D5185m         >20         3             Copper         ppm         ASTM D5185m         >20         3             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             Yellow Metal         scalar         *Visual         NONE              Potassium         ppm         ASTM D5185m<>20         0              Paticles >4µm         ASTM D7647         >10000         29992              Particles >4µm         ASTM D7647         >200         0             Particles >21µm         ASTM D7647         >20         0             Ditcleanliness         ISO 4406 (c)	Titanium	ppm	ASTM D5185m		0			
Lead         ppm         ASTM D5185m         >20         0             Copper         ppm         ASTM D5185m         >20         3             Tin         ppm         ASTM D5185m         >20         0             Vanadium         ppm         ASTM D5185m         >20         0             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >15         <1             Paticles s4µm         ASTM D7647         >1000         A 29992             Particles >4µm         ASTM D7647         >20         17             Particles >4µm         ASTM D7647         >20         0             Particles >21µm         ASTM D7647         >20         0             OI Cleanliness         ISO 4406 (c)         >20187         22/19/11	Silver	ppm	ASTM D5185m		0			
Copper         ppm         ASTM D5185m         >20         3             Tin         ppm         ASTM D5185m         >20         0             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         0             Water         WC Method         >0.05         NEG             Particles >4µm         ASTM D7647         >10000 <b>4</b> 29992             Particles >21µm         ASTM D7647         >20         0             Particles >21µm         ASTM D7647         >20         0             Oil Cleanliness         ISO 4406 (c)         >2018/15         4 2/19/11	Aluminum	ppm	ASTM D5185m	>20	0			
Tin         ppm         ASTM D5185m         >20         0             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         0             Water         WC Method         >0.05         NEG             Particles >4µm         ASTM D7647         >200 <b>A</b> 2676             Particles >1µm         ASTM D7647         >80         5             Particles >21µm         ASTM D7647         >20         0             Particles >38µm         ASTM D7647         >40         0             Oil Cleanliness         ISO 4406 (c)         2018/15         A 22/19/11             Sand/D	Lead	ppm	ASTM D5185m	>20	0			
Vanadium         ppm         ASTM D5185m         0             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE              Silicon         ppm         ASTM D5185m         >15         <1             Potassium         ppm         ASTM D5185m         >20         0             Water         WC Method         >0.05         NEG             Particles >4µm         ASTM D7647         >2000              Particles >6µm         ASTM D7647         >20         0             Particles >4µm         ASTM D7647         >20         0             Particles >38µm         ASTM D7647         >20         0             Oil Cleanliness         ISO 4406 (c)         >2018/15         42/19/11             Silt         scalar         *Visual         NONE             Sand/	Copper	ppm	ASTM D5185m	>20	3			
White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >15         <1             Potassium         ppm         ASTM D5185m         >20         0             Water         WC Method         >0.05         NEG             Particles >4µm         ASTM D7647         >10000         29992             Particles >51µm         ASTM D7647         >320         17             Particles >21µm         ASTM D7647         >20         0             Particles >21µm         ASTM D7647         >20         0             Particles >21µm         ASTM D7647         >20         0             Oil Cleanliness         ISO 4406 (c)         >2018/15         22/19/11             Silt         scalar         *Visual         NONE         NORE	Tin	ppm	ASTM D5185m	>20	0			
Yellow Metal         scalar         *Visual         NONE             Silicon         ppm         ASTM D5185m         >15         <1             Potassium         ppm         ASTM D5185m         >20         0             Water         WC Method         >0.05         NEG             Particles >4µm         ASTM D7647         >10000         ▲ 29992             Particles >6µm         ASTM D7647         >200         ▲ 2676             Particles >14µm         ASTM D7647         >20         0             Particles >38µm         ASTM D7647         >20         0             Particles >71µm         ASTM D7647         >20         0             Oil Cleanliness         ISO 4406 (> 2018/15         22/19/11              Sand/Dirt         scalar         *Visual         NONE              Appearance         scalar         *Visual         NORML         NORML       <	Vanadium	ppm	ASTM D5185m		0			
Silicon         ppm         ASTM D5185m         >15         <1	White Metal	scalar	*Visual	NONE	NONE			
Potassium         ppm         ASTM D5185m         >20         0             Water         WC Method         >0.05         NEG             Particles >4µm         ASTM D7647         >10000         ▲ 29992             Particles >6µm         ASTM D7647         >2500         ▲ 2676             Particles >14µm         ASTM D7647         >320         17             Particles >21µm         ASTM D7647         >20         0             Particles >38µm         ASTM D7647         >20         0             Particles >71µm         ASTM D7647         >20         0             Particles >71µm         ASTM D7647         >4         0             Oil Cleanliness         ISO 4406 (c)         >2018/15         ▲ 22/19/11             Sitt         scalar         *Visual         NONE             Appearance         scalar         *Visual         NORML         NORML	Yellow Metal	scalar	*Visual	NONE	NONE			
Potassium         ppm         ASTM D5185m         >20         0             Water         WC Method         >0.05         NEG             Particles >4µm         ASTM D7647         >10000         ▲ 29992             Particles >6µm         ASTM D7647         >2500         ▲ 2676             Particles >14µm         ASTM D7647         >320         17             Particles >21µm         ASTM D7647         >20         0             Particles >38µm         ASTM D7647         >20         0             Particles >71µm         ASTM D7647         >20         0             Particles >71µm         ASTM D7647         >4         0             Oil Cleanliness         ISO 4406 (c)         >2018/15         ▲ 22/19/11             Sitt         scalar         *Visual         NONE             Appearance         scalar         *Visual         NORML         NORML								
Water         WC Method         >0.05         NEG            Particles >4µm         ASTM D7647         >10000         ▲ 29992             Particles >6µm         ASTM D7647         >2500         ▲ 2676             Particles >14µm         ASTM D7647         >320         17             Particles >21µm         ASTM D7647         >20         0             Particles >38µm         ASTM D7647         >20         0             Particles >71µm         ASTM D7647         >4         0             Oil Cleanliness         ISO 4406 (c)         >2018/15         ▲ 22/19/11             Silt         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORM         NORML             Appearance         scalar         *Visual         NORM         NORML             Appearance         scalar         *Visual         NORM	Silicon	ppm	ASTM D5185m	>15	<1			
Particles >4μm         ASTM D7647         >10000         29992            Particles >6μm         ASTM D7647         >2500         2676            Particles >14μm         ASTM D7647         >320         17            Particles >14μm         ASTM D7647         >320         17            Particles >21μm         ASTM D7647         >80         5            Particles >38µm         ASTM D7647         >20         0            Particles >71µm         ASTM D7647         >4         0            Oil Cleanliness         ISO 4406 (c)         >2018/15         22/19/11             Silt         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORM         NORML             Appearance         scalar         *Visual         NORM         NORML             Appearance         scalar         *Visual         NORM         NORML             Sodium         ppm         ASTM D5185m         0	Potassium	ppm	ASTM D5185m	>20	0			
Particles >6μm         ASTM D7647         >2500         ▲ 2676             Particles >14μm         ASTM D7647         >320         17             Particles >21μm         ASTM D7647         >80         5             Particles >38μm         ASTM D7647         >20         0             Particles >71μm         ASTM D7647         >4         0             Oil Cleanliness         ISO 4406 (c)         >20/18/15         22/19/11             Silt         scalar         *Visual         NONE              Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORM         NORML             Odor         scalar         *Visual         NORM         NORML             Sodium         ppm         ASTM D5185m              Boron         ppm         ASTM D5185m         0 </th <th></th> <th></th> <th>WC Method</th> <th>&gt;0.05</th> <th>NEG</th> <th></th> <th></th>			WC Method	>0.05	NEG			
Particles >14µm         ASTM D7647         >320         17             Particles >21µm         ASTM D7647         >80         5             Particles >38µm         ASTM D7647         >20         0             Particles >71µm         ASTM D7647         >20         0             Oil Cleanliness         ISO 4406 (c)         >2018/15         22/19/11             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             Mappearance         scalar         *Visual         NORML         NORML             Boron         ppm         ASTM D5185m         0	Particles >4µm		ASTM D7647	>10000	<u> </u>			
Particles >21µm       ASTM D7647       >80       5          Particles >38µm       ASTM D7647       >20       0          Particles >71µm       ASTM D7647       >4       0          Oil Cleanliness       ISO 4406 (c)       >20/18/15       ▲ 22/19/11          Silt       scalar       *Visual       NONE       MONE          Debris       scalar       *Visual       NONE       NONE          Sand/Dirt       scalar       *Visual       NONE       NONE          Appearance       scalar       *Visual       NORML       NORML           Odor       scalar       *Visual       NORML       NORML           Sodium       ppm       ASTM D5185m             Boron       ppm       ASTM D5185m        0           Magnanese       ppm       ASTM D5185m        0           Magnesium       ppm       ASTM D5185m        5           Magnesium       ppm       AS	Particles >6µm		ASTM D7647	>2500	<b>a</b> 2676			
Particles >38µm         ASTM D7647         >20         0             Particles >71µm         ASTM D7647         >4         0             Oil Cleanliness         ISO 4406 (c) >20/18/15         ▲ 22/19/11             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             Molybdrem         scalar         *Visual         NORM         NORML             Sodium         ppm         ASTM D5185m          <1             Boron         ppm         ASTM D5185m         0              Molybdenum         ppm         ASTM D5185m         0	Particles >14µm		ASTM D7647	>320	17			
Particles >71µm         ASTM D7647         >4         0             Oil Cleanliness         ISO 4406 (c)         >20/18/15         ▲ 22/19/11             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             Modor         scalar         *Visual         NORML         NORML             Sodium         ppm         ASTM D5185m          0             Boron         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Maganese         ppm         ASTM D5185m         5 </th <th>Particles &gt;21µm</th> <th></th> <th>ASTM D7647</th> <th>&gt;80</th> <th>5</th> <th></th> <th></th>	Particles >21µm		ASTM D7647	>80	5			
Oil Cleanliness         ISO 4406 (c)         >20/18/15         22/19/11             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             Odor         scalar         *Visual         NORML         NORML             Godor         scalar         *Visual         >0.05         NEG             Boron         ppm         ASTM D5185m         0              Barium         ppm         ASTM D5185m         0              Maganese         ppm         ASTM D5185m         5             Magnesium         ppm         ASTM D5185m	Particles >38µm		ASTM D7647	>20	0			
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGSodiumppmASTM D5185m0BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185mMagnesiumppmASTM D5185m26PhosphorusppmASTM D5185m200ZincppmASTM D5185m300SulfurppmASTM D5185m300Acid Number (AN)mg KOHgASTM D5185m0.22	Particles >71µm		ASTM D7647	>4	0			
Debrisscalar*VisualNONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGSodiumppmASTM D5185m0BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MagnesiumppmASTM D5185mPhosphorusppmASTM D5185m26ZincppmASTM D5185m300SulfurppmASTM D5185m853Acid Number (AN)mg KOHgASTM D5185m853	Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>			
Sand/Dirt         scalar         *Visual         NONE         NONE            Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.05         NEG             Sodium         ppm         ASTM D5185m          <1             Boron         ppm         ASTM D5185m         0              Barium         ppm         ASTM D5185m         0              Molybdenum         ppm         ASTM D5185m         0              Magnesium         ppm         ASTM D5185m         5             Magnesium         ppm         ASTM D5185m         26             Phosphorus         ppm         ASTM D5185m         300	Silt	scalar	*Visual	NONE	NONE			
Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.05         NEG             Sodium         ppm         ASTM D5185m         <1             Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         <1             Magnesium         ppm         ASTM D5185m         <1             Phosphorus         ppm         ASTM D5185m         26             Zinc         ppm         ASTM D5185m         300             Sulfur         ppm         ASTM D5185m         300        Sulfur         ppm         AST	Debris	scalar	*Visual	NONE	NONE			
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGSodiumppmASTM D5185m<1BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MagneseppmASTM D5185m0MagnesiumppmASTM D5185m<11PhosphorusppmASTM D5185m26PhosphorusppmASTM D5185m216ZincppmASTM D5185m300SulfurppmASTM D5185m853Acid Number (AN)mg KOHgASTM D80450.22	Sand/Dirt	scalar	*Visual	NONE	NONE			
Emulsified Water         scalar         *Visual         >0.05         NEG            Sodium         ppm         ASTM D5185m         <1             Boron         ppm         ASTM D5185m         0             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         <1             Magnesium         ppm         ASTM D5185m         <11             Phosphorus         ppm         ASTM D5185m         <26             Zinc         ppm         ASTM D5185m         26             Sulfur         ppm         ASTM D5185m         300             Sulfur         ppm         ASTM D5185m         300             Kid Number (AN)         mg KOH/g         ASTM D5045         0.22	Appearance	scalar	*Visual	NORML	NORML			
Sodium         ppm         ASTM D5185m         <1	Odor	scalar	*Visual	NORML	NORML			
Boron         ppm         ASTM D5185m         0            Barium         ppm         ASTM D5185m         0            Molybdenum         ppm         ASTM D5185m         0            Manganese         ppm         ASTM D5185m         0            Magnesium         ppm         ASTM D5185m         <1            Calcium         ppm         ASTM D5185m         26            Phosphorus         ppm         ASTM D5185m         26            Zinc         ppm         ASTM D5185m         300            Sulfur         ppm         ASTM D5185m         300            Acid Number (AN)         mg KOH/g         ASTM D5045         0.22	Emulsified Water	scalar	*Visual	>0.05	NEG			
Boron         ppm         ASTM D5185m         0            Barium         ppm         ASTM D5185m         0            Molybdenum         ppm         ASTM D5185m         0            Manganese         ppm         ASTM D5185m         0            Magnesium         ppm         ASTM D5185m         <1            Calcium         ppm         ASTM D5185m         26            Phosphorus         ppm         ASTM D5185m         26            Zinc         ppm         ASTM D5185m         300            Sulfur         ppm         ASTM D5185m         300            Acid Number (AN)         mg KOH/g         ASTM D5045         0.22	••••				· · · · · · · · · · · · · · · · · · ·			
Barium         ppm         ASTM D5185m         0            Molybdenum         ppm         ASTM D5185m         0            Manganese         ppm         ASTM D5185m             Magnesium         ppm         ASTM D5185m             Magnesium         ppm         ASTM D5185m             Calcium         ppm         ASTM D5185m         26            Phosphorus         ppm         ASTM D5185m         275            Zinc         ppm         ASTM D5185m         3000            Sulfur         ppm         ASTM D5185m         853            Acid Number (AN)         mg KOH/g         ASTM D8045         0.22								
Molybdenum         ppm         ASTM D5185m         0            Manganese         ppm         ASTM D5185m         <1            Magnesium         ppm         ASTM D5185m         <1            Magnesium         ppm         ASTM D5185m         5            Calcium         ppm         ASTM D5185m         26            Phosphorus         ppm         ASTM D5185m         275            Zinc         ppm         ASTM D5185m         300            Sulfur         ppm         ASTM D5185m         853            Acid Number (AN)         mg KOH/g         ASTM D8045         0.22								
Maganese         ppm         ASTM D5185m         <1								
Magnesium         ppm         ASTM D5185m         5            Calcium         ppm         ASTM D5185m         26            Phosphorus         ppm         ASTM D5185m         275            Zinc         ppm         ASTM D5185m         300            Sulfur         ppm         ASTM D5185m         853            Acid Number (AN)         mg KOH/g         ASTM D8045         0.22								
Calcium         ppm         ASTM D5185m         26            Phosphorus         ppm         ASTM D5185m         275            Zinc         ppm         ASTM D5185m         300            Sulfur         ppm         ASTM D5185m         853            Acid Number (AN)         mg KOH/g         ASTM D8045         0.22								
Phosphorus         ppm         ASTM D5185m         275             Zinc         ppm         ASTM D5185m         300             Sulfur         ppm         ASTM D5185m         853             Acid Number (AN)         mg KOH/g         ASTM D8045         0.22	-	ppm						
Zinc         ppm         ASTM D5185m         300             Sulfur         ppm         ASTM D5185m         853             Acid Number (AN)         mg KOH/g         ASTM D8045         0.22		ppm						
Sulfur         ppm         ASTM D5185m         853             Acid Number (AN)         mg KOH/g         ASTM D8045         0.22		ppm						
Acid Number (AN) mg KOH/g ASTM D8045 0.22								
Visc @ 40°C cSt ASTM D445 64.7	. ,							
	Visc @ 40°C	cSt	ASTM D445		64.7			





Contact/Location: Service Manager - NIPLAN