

#### Machine Id **NEWFLYER 1923** Component **Diesel Engine** Fluid **{not provided} (28 QTS)**

### RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

### WEAR

All component wear rates are normal.

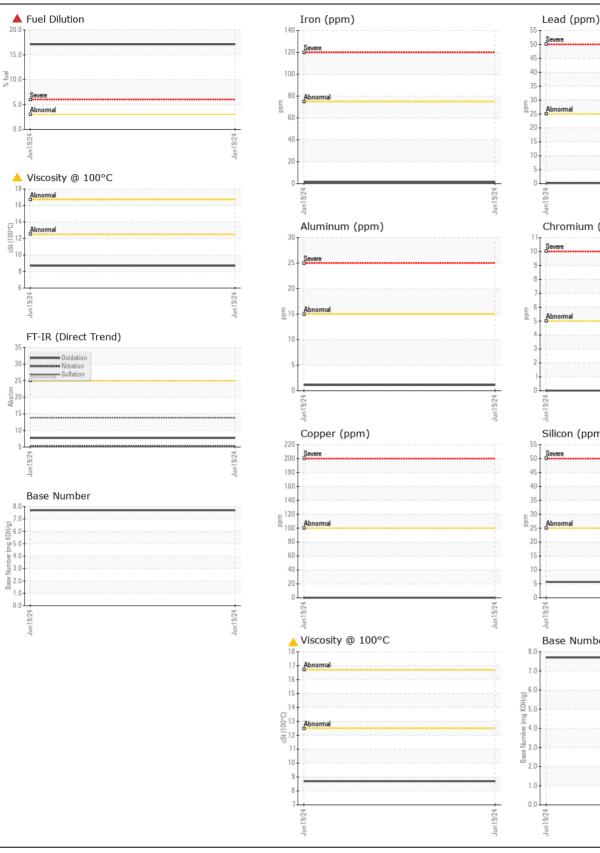
# CONTAMINATION

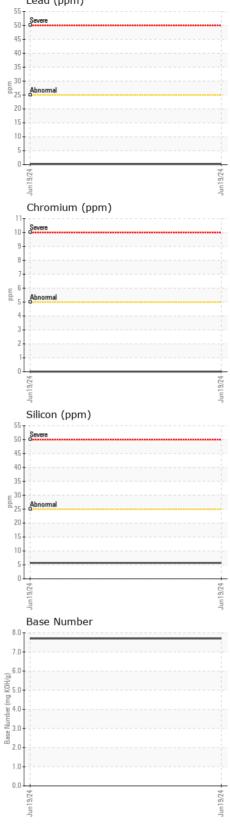
There is a high amount of fuel present in the oil. There is a moderate amount of visible silt present in the sample.

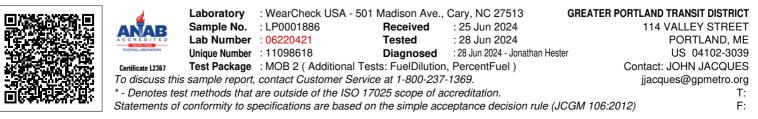
## FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test         UOM         Method         Limit/Ab         Current         History1         History2           Sample Number         Client Info         IP0001886             Sample Date         Client Info         19 Jun 2024             Machine Age         mls         Client Info         228727             Oil Age         mls         Client Info         0             Oil Changed         Client Info         N/A             Sample Status         SEVERE              Iron         ppm         ASTM D5165m<>-5         0             Nickel         ppm         ASTM D5165m<>-2         0             Silver         ppm         ASTM D5165m<>-2         0             Auminum         ppm         ASTM D5165m<>-2         0             Silver         ppm         ASTM D5165m<>-25         1             Auminum         ppm         ASTM D5165m<>-20         2 <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr<>							
Sample Number         Client Info         IP0001886             Machine Age         mls         Client Info         19 Jun 2024             Machine Age         mls         Client Info         228727             Filter Age         mls         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         SEVERE              Tron         ppm         ASTM D5185m<>-75         1             Nickel         ppm         ASTM D5185m<>-2         -<1             Silver         ppm         ASTM D5185m<>-25         <1             Aluminum         ppm         ASTM D5185m<>-25         <1             Qanadium         ppm         ASTM D5185m<>-25         <1             Yalobitism         >-10         0              Yanadium         ppm         ASTM D5185m<>-25         6	Test	UOM	Method	Limit/Abn	Current	Historv1	Historv2
Sample Date         Client Info         19 Jun 2024             Machine Age         mls         Client Info         228727             Oil Age         mls         Client Info         0             Oil Changed         Client Info         N/A             Sample Status         SEVERE             Iron         ppm         ASTM D5185m         >5         0            Nickel         ppm         ASTM D5185m         >2         <1            Titanium         ppm         ASTM D5185m         >2         <1             Silver         ppm         ASTM D5185m         >2         <1             Copper         ppm         ASTM D5185m         >2         <1             Vanadium         ppm         ASTM D5185m         >2         <1             Silicon         ppm         ASTM D5185m         >2         5         <1            Yellow Metal         scalar         Yuisual         NONE         NONE	Sample Number		Client Info		LP0001886		5
Machine Age         mis         Client Info         228727             Cil Age         mis         Client Info         0             Filter Age         mis         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         SEVERE             Iron         ppm         ASTM D5185m         >75         1             Chromium         ppm         ASTM D5185m         >55         0             Nickel         ppm         ASTM D5185m         >2         1             Aluminum         ppm         ASTM D5185m         >2         1             Copper         ppm         ASTM D5185m         >25         <1             Vanadium         ppm         ASTM D5185m         >4         0             Vanadium         ppm         ASTM D5185m         >20         2             Vanadium         ppm         ASTM D518							
Oil Age         mls         Client Info         228727             Filter Age         mls         Client Info         N/A             Gil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         SEVERE              Iron         ppm         ASTM D5185m         >75         1             Chromium         ppm         ASTM D5185m         >2         0             Silver         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >2         0             Qanadium         ppm         ASTM D5185m         >2         <1             Visual         NONE                Vanadium         ppm         ASTM D5185m         >2         6             Yellow Metal         scatar<'Visual <t< th=""><th>•</th><th>mls</th><th></th><th></th><th></th><th></th><th></th></t<>	•	mls					
Filter Age         mls         Client Info         0             Cil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         SEVERE             Iron         ppm         ASTM D5185m<>55         0             Chromium         ppm         ASTM D5185m<>2         <1             Nickel         ppm         ASTM D5185m<>2         <1             Titanium         ppm         ASTM D5185m<>2         <1             Aluminum         ppm         ASTM D5185m<<>1         1             Copper         ppm         ASTM D5185m<         >100         0             Vanadium         ppm         ASTM D5185m         >20         2             Yellow Metal         scalar         'Visual         NONE             Yellow Metal         scalar         'Visual         NONE	•	-					
Oil Changed         Client Info         N/A             Filter Changed         Client Info         N/A             Sample Status         SEVERE             Iron         ppm         ASTM D5185m         >75         1            Iron         ppm         ASTM D5185m         >5         0            Nickel         ppm         ASTM D5185m         >2         0            Aluminum         ppm         ASTM D5185m         >2         0            Aluminum         ppm         ASTM D5185m         >2         0            Vanadium         ppm         ASTM D5185m         >2         <1            Vanadium         ppm         ASTM D5185m         <         <1            Vanadum         ppm         ASTM D5185m         <2         <1            Vanadum         ppm         ASTM D5185m         >20         2            Vanadum         ppm         ASTM D5185m         >20         2            Silicon         ppm         ASTM D5185m         >20 <th>Ū</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Ū						
Filter Changed Sample Status         Client Info         N/A             Sample Status         SEVERE              Iron         ppm         ASTM D5185m         >75         1             Chromium         ppm         ASTM D5185m         >2         0             Nickel         ppm         ASTM D5185m         >2         <1             Silver         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >2         <1             Lead         ppm         ASTM D5185m         >100         0             Vanadium         ppm         ASTM D5185m         >100         0             Yellow Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE             Silicon </th <th>0</th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>	0				-		
Sample Status         SEVERE             Iron         ppm         ASTM D5185m<>75         1             Chromium         ppm         ASTM D5185m<>2         0             Nickel         ppm         ASTM D5185m<>2         0             Silver         ppm         ASTM D5185m<>2         0             Aluminum         ppm         ASTM D5185m<>2         1             Lead         ppm         ASTM D5185m<>2         1             Copper         ppm         ASTM D5185m<>100         0             Vanadium         ppm         ASTM D5185m<>4         0             Vanadium         ppm         ASTM D5185m<>2         6             Valadum         scalar         *Visual         NONE             Vellow Metal         scalar         *Visual         NONE             Silicon         ppm         ASTM D7845         >3.0         1.3.8	-						
Iron         ppm         ASTM D5185m         >75         1             Chromium         ppm         ASTM D5185m         >5         0             Nickel         ppm         ASTM D5185m         >2         <1             Titanium         ppm         ASTM D5185m         >2         <1             Aluminum         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >2         <1             Lead         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >4         0             Vanadium         ppm         ASTM D5185m         >2         6             Vanadium         ppm         ASTM D5185m         >2         6             Vanadium         ppm         ASTM D5185m         >2         6             Vellow Metal         scalar         NONE	0		Onone into				
Chromium         ppm         ASTM D5185m         >50         0             Nickel         ppm         ASTM D5185m         >4         0             Titanium         ppm         ASTM D5185m         >2         0             Silver         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >2         1             Lead         ppm         ASTM D5185m         >2         1             Copper         ppm         ASTM D5185m         >2         1             Vanadium         ppm         ASTM D5185m         >4         0             Vanadium         ppm         ASTM D5185m         >20         2             Vanadium         ppm         ASTM D5185m         >20         2             Silicon         ppm         ASTM D5185m         >20         2             Fuel         %         ASTM D5185m <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>							
Nickel         ppm         ASTM D5185m         >4         0             Titanium         ppm         ASTM D5185m         >2         <1             Silver         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >25         <1             Lead         ppm         ASTM D5185m         >25         <1             Copper         ppm         ASTM D5185m         >25         <1             Vanadium         ppm         ASTM D5185m         >25         <6             Vanadium         ppm         ASTM D5185m         >20         2             Yellow Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE             Yellow Metal         scalar         *Visual         NONE	Iron	ppm	ASTM D5185m	>75	1		
Titanium         ppm         ASTM D5185m         >2         <1	Chromium	ppm	ASTM D5185m	>5	0		
Silver         ppm         ASTM D5185m         >2         0             Aluminum         ppm         ASTM D5185m         >15         1             Lead         ppm         ASTM D5185m         >25         <1             Copper         ppm         ASTM D5185m         >25         <1             Vanadium         ppm         ASTM D5185m         >4         0             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m<>20         2              Fuel         %         ASTM D5185m<>20         2              Water         WC Method         >0.2         NEG             Glycol         WC Method         NO.2         NEG             Soti %         %         'ASTM D7184         >6	Nickel	ppm	ASTM D5185m	>4	0		
Aluminum         ppm         ASTM D5185m         >15         1             Lead         ppm         ASTM D5185m         >25         <1             Copper         ppm         ASTM D5185m         >100         0             Tin         ppm         ASTM D5185m         >4         0             Waradium         ppm         ASTM D5185m         >4         0             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m<>20         2              Fuel         %         ASTM D5185m<>20         2              Fuel         %         ASTM D5185m<>20         NEG             Glycol         WC Method         >0.2         NEG             Sott %         %         *ASTM D7614         >6	Titanium	ppm	ASTM D5185m	>2	<1		
Lead         ppm         ASTM D5185m         >25         <1	Silver	ppm	ASTM D5185m	>2	0		
Lead         ppm         ASTM D5185m         >25         <1	Aluminum		ASTM D5185m	>15	1		
Copper         ppm         ASTM D5185m         >100         0             Tin         ppm         ASTM D5185m         >4         0             Vanadium         ppm         ASTM D5185m         <1             White Metal         scalar         'Visual         NONE         NONE             White Metal         scalar         'Visual         NONE         NONE             Yellow Metal         scalar         'Visual         NONE              Solicon         ppm         ASTM D5185m<>20         2              Fuel         %         ASTM D5185m<>20         2         NEG             Glycol         WC Method         >0.2         NEG              Soto %         %         *ASTM D764<>20         5.2	Lead		ASTM D5185m	>25	<1		
Tin         ppm         ASTM D5185m         >4         0             Vanadium         ppm         ASTM D5185m         <1             White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m<>20         2             Potassium         ppm         ASTM D5185m<>20         2             Water         WC Method         0.2         NEG             Glycol         WC Method         0.2         NEG             Soot %         %         'ASTM D7624<>20         5.2             Sulfation         Abs/:mm< 'ASTM D7452         >0         13.8             Sulfation         Abs/:mm< 'ASTM D7415         >30         13.8             Sulfation         Abs/:mm< 'ASTM D7185         NONE              Sulfati	Copper		ASTM D5185m	>100	0		
Vanadium         ppm         ASTM D5185m         <1				>4	0		
White Metal         scalar         *Visual         NONE         NONE             Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m         >20         2             Potassium         ppm         ASTM D5185m         >20         2             Fuel         %         ASTM D5185m         >20         NEG             Water         WC Method         >0.2         NEG             Soot %         %         ASTM D7844         >6         0.1             Soot %         %         *ASTM D7844         >6         0.1             Sulfation         Abs/.mm         *ASTM D7815         >30         13.8             Sulfation         Abs/.mm         *ASTM D7815         >30         13.8             Sodium         scalar         *Visual         NONE              Appearance         scalar         *Visu	Vanadium		ASTM D5185m		<1		
Yellow Metal         scalar         *Visual         NONE         NONE             Silicon         ppm         ASTM D5185m<>20         2             Potassium         ppm         ASTM D5185m<>20         2             Fuel         %         ASTM D5185m<>20         2             Water         WC Method         >0.2         NEG             Glycol         WC Method         >0.2         NEG             Soot %         %         *ASTM D7844         >6         0.1             Solt %         %         *ASTM D7824         >20         5.2             Sulfation         Abs/:mm< *ASTM D7814         >6         0.1             Sulfation         Abs/:mm         *ASTM D7814         >30         13.8             Sulfation         Abs/:mm         *ASTM D7814         >0         NORE             Sulfation         Abs/:mm         *Visual         NONE         NORE         <				NONE			
Silicon         ppm         ASTM D5185m         >25         6             Potassium         ppm         ASTM D5185m         >20         2             Fuel         %         ASTM D5185m         >20         A         17.1             Water         WC Method         >0.2         NEG              Glycol         WC Method         >0.2         NEG              Soot %         %         *ASTM D7844         >6         0.1             Soot %         %         *ASTM D7824         >20         5.2             Sulfation         Abs/:mm         *ASTM D7814         >6         0.1             Sulfation         Abs/:Imm         *ASTM D7814         >30         13.8             Sulfation         Abs/:Imm         *ASTM D7814         >0         NORE             Sulfation         Abs/:Imm         *ASTM D7814         NORM             Sand/Dirit         scal					-		
Potassium         ppm         ASTM D5185m         >20         2             Fuel         %         ASTM D3524         >3.0         ▲ 17.1             Water         WC Method         >0.2         NEG             Glycol         WC Method         >0.2         NEG             Soot %         %         *ASTM D7844         >6         0.1             Nitration         Abs/cm<*ASTM D7624         >20         5.2             Sulfation         Abs/fm<*ASTM D7624         >20         5.2             Sulfation         Abs/fm<*ASTM D71415         >30         13.8             Sulfation         Abs/fm<*ASTM D71415         >30         13.8             Sulfation         xcalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORM         NORML </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Fuel       %       ASTM D3524       >3.0       ▲ 17.1          Water       WC Method       >0.2       NEG          Glycol       WC Method       >0.2       NEG          Soot %       %       *ASTM D7844       >6       0.1          Nitration       Abs/cm       *ASTM D7624       >20       5.2          Sulfation       Abs/1mm       *ASTM D7618       MODER           Sulfation       scalar       *Visual       NONE           Appearance       scalar       *Visual       NORML       NORML           Gdor       scalar       *Visual       NORML       NORML<	Silicon	ppm	ASTM D5185m	>25	6		
Water         WC Method         >0.2         NEG            Glycol         WC Method         NEG             Soot %         %         *ASTM D7844         >6         0.1            Nitration         Abs/cm         *ASTM D7624         >20         5.2            Sulfation         Abs/1mm         *ASTM D7624         >20         MODER            Sulfation         Abs/1mm         *ASTM D715         >30         13.8            Sulfation         Ascalar         *Visual         NONE             Sand/Dirt         scalar         *Visual         NORML         NORML             Appearance         scalar         *Visual         NORML         NOR	Potassium	ppm	ASTM D5185m	>20	2		
Glycol         WC Method         NEG             Soot %         %         *ASTM D7844         >6         0.1             Nitration         Abs/cm         *ASTM D7624         >20         5.2             Sulfation         Abs/cm         *ASTM D7624         >20         5.2             Sulfation         Abs/cm         *ASTM D7624         >20         5.2             Sulfation         Abs/cm         *ASTM D7615         >30         13.8             Sulfation         Abs/cm         *Visual         NONE         MODER             Debris         scalar         *Visual         NORE         NONE             Appearance         scalar         *Visual         NORM         NORML             Odor         scalar         *Visual         NORM         NORML             Sodium         ppm         ASTM D5185m         <1             Boron         ppm         ASTM D5185m         8	Fuel	%	ASTM D3524	>3.0	<b>17.1</b>		
Soot %         %         *ASTM D7844         >6         0.1             Nitration         Abs/cm         *ASTM D7624         >20         5.2             Sulfation         Abs/1mm         *ASTM D7615         >30         13.8             Sulfation         Abs/1mm         *ASTM D7415         >30         13.8             Sulfation         Abs/1mm         *ASTM D7415         >30         13.8             Sulfation         Abs/1mm         *Visual         NONE         MODER             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NOR         NORML             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         >0.2         NEG             Boron         ppm         ASTM D5185m         8              Molybdenum </th <th>Water</th> <th></th> <th>WC Method</th> <th>&gt;0.2</th> <th>NEG</th> <th></th> <th></th>	Water		WC Method	>0.2	NEG		
Nitration         Abs/cm         *ASTM D7624         >20         5.2             Sulfation         Abs/1mm         *ASTM D7415         >30         13.8             Silt         scalar         *Visual         NONE         MODER             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG             Sodium         ppm         ASTM D5185m         8              Boron         ppm         ASTM D5185m         0              Malganese         ppm         ASTM D5185m         <1             Magnesium         ppm	Glycol		WC Method		NEG		
Sulfation         Abs/.1mm         *ASTM D7415         >30         13.8             Silt         scalar         *Visual         NONE         MODER             Debris         scalar         *Visual         NONE         NONE             Sand/Dirt         scalar         *Visual         NONE         NONE             Appearance         scalar         *Visual         NORML         NORML             Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG             Sodium         ppm         ASTM D5185m         8              Boron         ppm         ASTM D5185m         0              Malganese         ppm         ASTM D5185m         8             Magnesium         ppm         ASTM D5185m         2054             Phosphorus         ppm         ASTM D5185m<	Soot %	%	*ASTM D7844	>6	0.1		
Siltscalar*VisualNONE▲ MODERDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m8BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m4.1MagnesiumppmASTM D5185m2054PhosphorusppmASTM D5185m788ZincppmASTM D5185m3698SulfurppmASTM D5185m3698Sulfurkb/.hm*ASTM D5185m3698Sulfurkb/.hm*ASTM D5185m3698Sulfurkb/.hm*ASTM D28967.70Base Number (BN)mg KOHgASTM D28967.70	Nitration	Abs/cm	*ASTM D7624	>20	5.2		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185mBoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m8MagnesiumppmASTM D5185mPhosphorusppmASTM D5185m2054ZincppmASTM D5185m907SulfurppmASTM D5185m3698OxidationAbs/.tmm*ASTM D2867.70Base Number (BN)mg KOHgASTM D28967.70	Sulfation	Abs/.1mm	*ASTM D7415	>30	13.8		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185mBoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m8ManganeseppmASTM D5185m215MagnesiumppmASTM D5185m2054PhosphorusppmASTM D5185m907ZincppmASTM D5185m3698SulfurppmASTM D5185m3698OxidationAbs/.tmm*ASTM D2867.70Base Number (BN)mg KOHgASTM D28967.70	Silt	scalar	*Visual	NONE	A MODER		
Appearance         scalar         *Visual         NORML         NORML            Odor         scalar         *Visual         NORML         NORML             Emulsified Water         scalar         *Visual         >0.2         NEG             Sodium         ppm         ASTM D5185m              Boron         ppm         ASTM D5185m         8             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         8             Magnesium         ppm         ASTM D5185m         21             Magnesium         ppm         ASTM D5185m         21             Magnesium         ppm         ASTM D5185m         2054             Phosphorus         ppm         ASTM D5185m         907             Zinc         ppm         ASTM D5185m         3698        Sulfur         ppm         ASTM D5185m	Debris	scalar	*Visual	NONE	NONE		
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m<1BoronppmASTM D5185m8BariumppmASTM D5185m0MolybdenumppmASTM D5185m8ManganeseppmASTM D5185m<1MagnesiumppmASTM D5185m2054CalciumppmASTM D5185m907PhosphorusppmASTM D5185m3698SulfurppmASTM D5185m3698OxidationAbs/.1mm*ASTM D7414>257.7Base Number (BN)mg KOHgASTM D2896 <b>7.70</b>	Sand/Dirt	scalar	*Visual	NONE	NONE		
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m<1BoronppmASTM D5185m8BariumppmASTM D5185m0MolybdenumppmASTM D5185m8ManganeseppmASTM D5185m<1MagnesiumppmASTM D5185m2054CalciumppmASTM D5185m907PhosphorusppmASTM D5185m3698SulfurppmASTM D5185m3698OxidationAbs/.1mm*ASTM D7414>257.7Base Number (BN)mg KOHgASTM D2896 <b>7.70</b>	Appearance	scalar	*Visual	NORML	NORML		
Sodium         ppm         ASTM D5185m         <1		scalar	*Visual	NORML	NORML		
Boron         ppm         ASTM D5185m         8            Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         21             Magnesium         ppm         ASTM D5185m         2054             Calcium         ppm         ASTM D5185m         788             Phosphorus         ppm         ASTM D5185m         907             Sulfur         ppm         ASTM D5185m         3698             Oxidation         Abs/.1mm<*ASTM D7414 >25         7.7             Base Number (BN)         mg KOH/g         ASTM D2896         7.70	Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron         ppm         ASTM D5185m         8            Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         21             Magnesium         ppm         ASTM D5185m         2054             Calcium         ppm         ASTM D5185m         788             Phosphorus         ppm         ASTM D5185m         907             Sulfur         ppm         ASTM D5185m         3698             Oxidation         Abs/.1mm<*ASTM D7414 >25         7.7             Base Number (BN)         mg KOH/g         ASTM D2896         7.70							
Barium         ppm         ASTM D5185m         0            Molybdenum         ppm         ASTM D5185m         8            Manganese         ppm         ASTM D5185m         <1	Sodium	ppm					
Molybdenum         ppm         ASTM D5185m         8            Manganese         ppm         ASTM D5185m         <1            Magnesium         ppm         ASTM D5185m         25            Magnesium         ppm         ASTM D5185m         2054            Calcium         ppm         ASTM D5185m         788            Phosphorus         ppm         ASTM D5185m         907            Zinc         ppm         ASTM D5185m         3698            Sulfur         ppm         ASTM D5185m         3698            Oxidation         Abs/.1mm<*ASTM D7414 >25         7.7            Base Number (BN)         mg KOH/g         ASTM D2896         7.70	Boron	ppm			8		
Manganese         ppm         ASTM D5185m         <1							
Magnesium         ppm         ASTM D5185m         25             Calcium         ppm         ASTM D5185m         2054             Phosphorus         ppm         ASTM D5185m         788             Zinc         ppm         ASTM D5185m         907             Sulfur         ppm         ASTM D5185m         3698             Oxidation         Abs/.1mm         *ASTM D7414 >25         7.7             Base Number (BN)         mg KOH/g         ASTM D2896         7.70		ppm			8		
Calcium         ppm         ASTM D5185m         2054            Phosphorus         ppm         ASTM D5185m         788            Zinc         ppm         ASTM D5185m         907            Sulfur         ppm         ASTM D5185m         3698            Oxidation         Abs/.tmm         *ASTM D7414 >25         7.7            Base Number (BN)         mg KOH/g         ASTM D2896         7.70	-						
Phosphorus         ppm         ASTM D5185m         788            Zinc         ppm         ASTM D5185m         907            Sulfur         ppm         ASTM D5185m         3698            Oxidation         Abs/.1mm         *ASTM D7414<>25         7.7            Base Number (BN)         mg KOH/g         ASTM D2896         7.70	-	ppm					
Zinc         ppm         ASTM D5185m         907             Sulfur         ppm         ASTM D5185m         3698             Oxidation         Abs/.1mm         *ASTM D7414         >25         7.7             Base Number (BN)         mg KOH/g         ASTM D2896         7.70							
Sulfur         ppm         ASTM D5185m         3698             Oxidation         Abs/.1mm         *ASTM D7414         >25         7.7             Base Number (BN)         mg KOH/g         ASTM D2896         7.70	Phosphorus	ppm					
Oxidation         Abs/.1mm         *ASTM D7414         >25         7.7            Base Number (BN)         mg KOH/g         ASTM D2896         7.70		ppm			907		
Base Number (BN)         mg KOH/g         ASTM D2896         7.70		ppm					
		Abs/.1mm		>25			
Visc @ 100°C cSt ASTM D445 🛛 🎽 8.7 🌙	( )	mg KOH/g			7.70		
	Visc @ 100°C	cSt	ASTM D445		8.7		







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