

## JOHN DEERE 331G 1T0331GKKPF449962

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## Component Hydraulic System

{not provided} (--- GAL)

REC	OMN	IEND	ATI	ON

We recommend you service the filters on this component. Resample at the next service interval to monitor.



All component wear rates are normal.

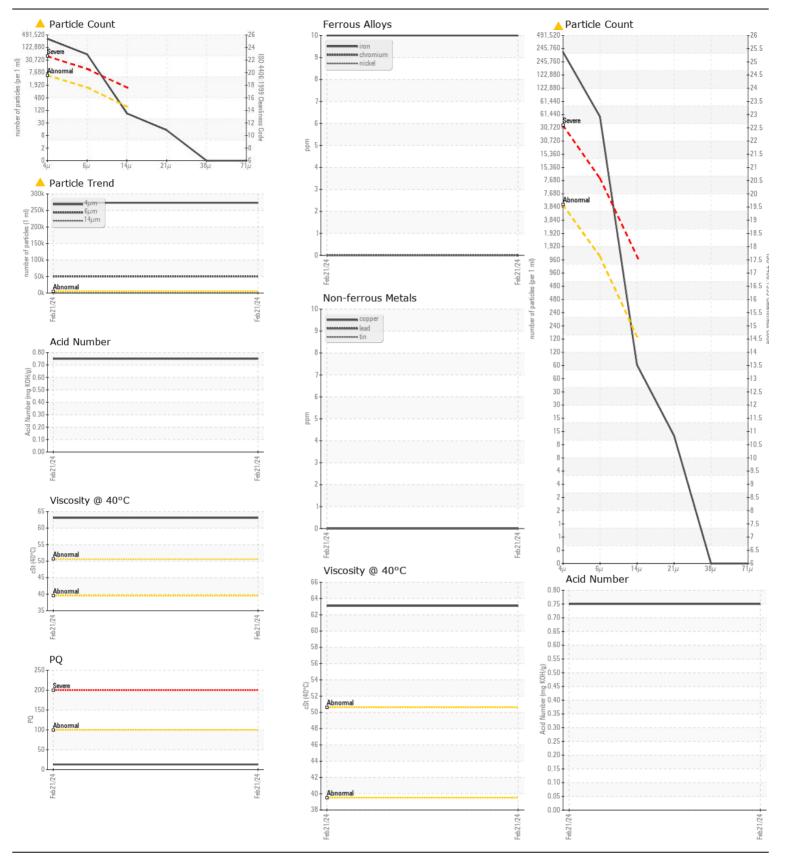
## CONTAMINATION

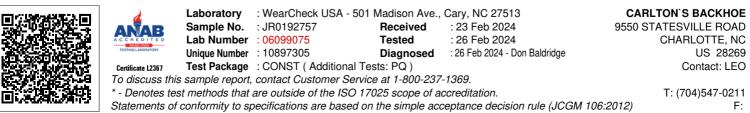
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

## 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 Dumber     Client Info     21 Feb204         Machine Age     hrs     Client Info     406         Oil Age     hrs     Client Info     406         Oil Changed     Client Info     Not Change         Sample Data     Client Info     Not Change         Sample Status     -     ASTM D8184     13         Sample Status     -     ASTM D8185     >10     0         PQ     ASTM D8185     >10     0          Nickel     ppm     ASTM D51855     >10          Silver     ppm     ASTM D51855     >10     0         Silver     ppm     ASTM D51855     >10     0         Silver     ppm					~~~~~		
Sample Date     Client Info     406         Machine Age     hrs     Client Info     406         Oil Age     hrs     Client Info     0         Oil Changed     Client Info     Not Changd         Filter Changed     Client Info     Not Changd         Sample Status      BNORMAL         Iron     ppm     ASTM D5185m     >10     0         Chromium     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     >10     0         Silver     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     0         Vanadium     ppm     ASTM D5185m     >20     0         Vellow Metal     scalar     *Visual     NO	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Cil Age Filter Age Filter Age Filter Age Filter Age Cilent Info     406         Filter Age Filter Changed Cilent Info     Not Changd Not Changd         Sample Status     Cilent Info Chromium     Not Changd PU         PQ     ASTM D8184     13         Iron     ppm     ASTM D5185m     >20     10        Nickel     ppm     ASTM D5185m     >10     0        Nickel     ppm     ASTM D5185m     0         Nickel     ppm     ASTM D5185m     10     0         Nickel     ppm     ASTM D5185m     10          Nickel     ppm     ASTM D5185m     10          Aluminum     ppm     ASTM D5185m     10          Lead     ppm     ASTM D5185m     20     0         Vanadium     ppm     ASTM D5185m <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>JR0192757</th> <th></th> <th></th>	Sample Number		Client Info		JR0192757		
Oil Age     hrs     Client Info     406         Filter Age     hrs     Client Info     Not Changd         Oil Changed     Client Info     Not Changd          Sample Status     ABNORMAL           PQ     ASTM D5185m     >20     10         Nickel     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     >10     0         Silver     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     0         Vanadum     ppm     ASTM D5185m     >10     0         Yellow Metal     scalar     Yusual     NONE     Ince        Yellow Metal     scalar     Yusual     NONE     Ince        Yellow Metal <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>21 Feb 2024</th> <th></th> <th></th>	Sample Date		Client Info		21 Feb 2024		
Filter Age     hrs     Client Info     0         Oil Changed     Client Info     Not Changd         Filter Changed     Client Info     Not Changd         Sample Status     ABNORNAL         PQ     ASTM D8184     13         Iron     ppm     ASTM D5185m<>10     0         Chromium     ppm     ASTM D5185m<>10     0         Nickel     ppm     ASTM D5185m<     0     0         Aluminum     ppm     ASTM D5185m<     10     0         Itanium     ppm     ASTM D5185m<     10     0         Aluminum     ppm     ASTM D5185m     10     0         Vanadium     ppm     ASTM D5185m     20     0         Vellow Metal     scalar     *Visual     NONE <t< th=""><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>406</th><th></th><th></th></t<>	Machine Age	hrs	Client Info		406		
Oil Changed     Client Info     Not Changd        Sample Status     Client Info     Not Changd      ABNORMA        PQ     ASTM D8184     13         PC     ASTM D5185m     >20     10         Nickel     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     0     0         Aluminum     ppm     ASTM D5185m     10     0         Lead     ppm     ASTM D5185m     >10     0         Vanadium ppm     ASTM D5185m     >10     0         Vanadum ppm     ASTM D5185m     >20     0         Yellow Metal     scalar     *Visual     NONE     A        Yellow Metal     scalar     *Visu	Oil Age	hrs	Client Info		406		
Filter Changed Sample Status     Client Info     Not Changd ABNORMAL         PQ     ASTM D8184     13         Iron     ppm     ASTM D6185m     >20     10         Chromium     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     >10     0         Silver     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     0         Vanadium     ppm     ASTM D5185m     >10     0         Veltow Metal     scalar     *Visual     NONE     NONE         Silicon     ppm     ASTM D5185m     >20     0         Paticos >4µm     ASTM D5185m     >20     2   <	Filter Age	hrs	Client Info		0		
Sample Status     ABNORMAL	Oil Changed		Client Info		Not Changd		
PQ     ASTM D8184     13         Iron     ppm     ASTM D5185m     >20     10         Chromium     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     >10     0         Silver     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     0         Vanadium     ppm     ASTM D5185m     >75     0         Vanadium     ppm     ASTM D5185m     >70     0         Vanadium     ppm     ASTM D5185m     >20     2         Visual     NONE     NONE          Vellow Metal     scalar<'Visual     NONE     NONE	Filter Changed		Client Info		Not Changd		
Iron     ppm     ASTM D5185m     >20     10         Nickel     ppm     ASTM D5185m     >10     0         Titanium     ppm     ASTM D5185m     0         Aluminum     ppm     ASTM D5185m     0         Aluminum     ppm     ASTM D5185m     >10     <1         Aluminum     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     0         Vanadium     ppm     ASTM D5185m     0          Vanadium     ppm     ASTM D5185m     >20     0         Vallow Metal     scalar     *Visual     NONE     NONE         Silicon     ppm     ASTM D7647     >100          Particles >4µm     ASTM D7647     >100	Sample Status				ABNORMAL		
Iron     ppm     ASTM D5185m     >20     10         Nickel     ppm     ASTM D5185m     >10     0         Titanium     ppm     ASTM D5185m     0         Aluminum     ppm     ASTM D5185m     0         Aluminum     ppm     ASTM D5185m     >10     <1         Aluminum     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     0         Vanadium     ppm     ASTM D5185m     0          Vanadium     ppm     ASTM D5185m     >20     0         Vallow Metal     scalar     *Visual     NONE     NONE         Silicon     ppm     ASTM D7647     >100          Particles >4µm     ASTM D7647     >100							
Chromium     ppm     ASTM D5185m     >10     0         Nickel     ppm     ASTM D5185m     0         Silver     ppm     ASTM D5185m     0         Silver     ppm     ASTM D5185m     0         Lead     ppm     ASTM D5185m     >10     0         Lead     ppm     ASTM D5185m     >10     0         Vanadium     ppm     ASTM D5185m     >10     0         Vanadium     ppm     ASTM D5185m     >0     0         Vellow Metal     scalar     *Visual     NONE     NONE         Silicon     ppm     ASTM D5185m     >20     0         Vater     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     >160     76					-		
Nickel     ppm     ASTM D5185m     >10     0         Titanium     ppm     ASTM D5185m     0         Silver     ppm     ASTM D5185m     10     <1        Aluminum     ppm     ASTM D5185m     >10     0        Lead     ppm     ASTM D5185m     >10     0        Copper     ppm     ASTM D5185m     >10     0        Vanadium     ppm     ASTM D5185m     >10     0        Vanadium     ppm     ASTM D5185m     >20     2        Vellow Metal     scalar     *Uisual     NONE     NONE        Silicon     ppm     ASTM D7647     >20     0         Vater     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     >180     60231         Particles >21µm     ASTM D7647     >30     0	-	ppm	ASTM D5185m	>20	-		
Titanium     ppm     ASTM D5185m     0        Silver     ppm     ASTM D5185m     >10     <1        Aluminum     ppm     ASTM D5185m     >10     0        Lead     ppm     ASTM D5185m     >10     0        Copper     ppm     ASTM D5185m     >75     0        Vanadium     ppm     ASTM D5185m     0         Vanadium     ppm     ASTM D5185m     0         Vanadium     ppm     ASTM D5185m     >20     0         Vanadium     ppm     ASTM D5185m     >20     0         Vellow Metal     scalar     *Visual     NONE          Silicon     ppm     ASTM D7647     >100          Particles >4µm     ASTM D7647     >10     0         Particles >4µm     ASTM D7647					-		
Silver     ppm     ASTM D5185m     0         Aluminum     ppm     ASTM D5185m     >10     <1         Lead     ppm     ASTM D5185m     >10     0         Copper     ppm     ASTM D5185m     >10     0         Tin     ppm     ASTM D5185m     >10     0         White Metal     scalar     *Visual     NONE          Yellow Metal     scalar     *Visual     NONE     NONE         Potassium     ppm     ASTM D5185m     >20     0         Water     WC Method     >0.1     NEG          Particles >4µm     ASTM D7647     >100          Particles >1µm     ASTM D7647     >10     0         Particles >38µm     ASTM D7647     >10     0     <		ppm		>10	-		
Aluminum     ppm     ASTM D5185m     >10     <1					-		
Lead     ppm     ASTM D5185m     >10     0         Copper     ppm     ASTM D5185m     >75     0         Tin     ppm     ASTM D5185m     >10     0         Vanadium     ppm     ASTM D5185m     0         White Metal     scalar     *Visual     NONE         Yellow Metal     scalar     *Visual     NONE         Potassium     ppm     ASTM D5185m     >20     0         Particles >4µm     ASTM D7647     >5000     ▲ 273246         Particles >4µm     ASTM D7647     >1300     ▲ 50231         Particles >1µm     ASTM D7647     >40     12         Particles >1µm     ASTM D7647     >10     0         Particles >1µm     ASTM D7647     >3     0 <td< th=""><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th></td<>					-		
Copper     ppm     ASTM D5185m     >75     0         Tin     ppm     ASTM D5185m     0         Vanadium     ppm     ASTM D5185m     0         White Metal     scalar     *Visual     NONE     NONE         Yellow Metal     scalar     *Visual     NONE     NONE         Solicon     ppm     ASTM D5185m<>20     2         Potassium     ppm     ASTM D5185m<>20     0         Water     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     >100     60231         Particles >21µm     ASTM D7647     >40     12         Particles >21µm     ASTM D7647     >10     0         Oil Cleanliness     ISO 4406 (c)     >191714     25/23/13         Sand/Dirt							
Tin     ppm     ASTM D5185m     >10     0         Vanadium     ppm     ASTM D5185m     0         White Metal     scalar     *Visual     NONE     NONE        Yellow Metal     scalar     *Visual     NONE     NONE        Potassium     ppm     ASTM D5185m     >20     2         Potassium     pm     ASTM D5185m     >20     0         Paticles >4µm     ASTM D7647     >5000     ▲ 273246         Particles >6µm     ASTM D7647     >100          Particles >6µm     ASTM D7647     >10     0         Particles >38µm     ASTM D7647     >10     0         Particles >71µm     ASTM D7647     >10     0         Soll Coenliness     scalar     *Visual     NONE         Sold (co				-	-		
Vanadium     ppm     ASTM D5185m     0         White Metal     scalar     *Visual     NONE     NONE         Yellow Metal     scalar     *Visual     NONE     NONE         Silicon     ppm     ASTM D5185m<>20     2         Potassium     ppm     ASTM D5185m<>20     0         Paticles >4µm     ASTM D5185m<>20     ▲ 273246         Particles >6µm     ASTM D7647     >160     76         Particles >6µm     ASTM D7647     >100          Particles >71µm     ASTM D7647     >10     0         Particles >71µm     ASTM D7647     >10     0         Silt     scalar     *Visual     NONE         Sodiur     scalar     *Visual     NONE         Appearance     scalar					-		
White Metal     scalar     *Visual     NONE     NONE         Yellow Metal     scalar     *Visual     NONE     NONE         Silicon     ppm     ASTM D5185m     >20     0         Potassium     ppm     ASTM D5185m     >20     0         Water     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     >1300     ▲ 570231         Particles >14µm     ASTM D7647     >100          Particles >38µm     ASTM D7647     >10     0         Particles >38µm     ASTM D7647     >3     0         Particles >38µm     ASTM D7647     >3     0         Particles >38µm     ASTM D7647     >3     0         Silt     scalar     *Visual     NONE     NONE				>10	-		
Yellow Metal     scalar     *Visual     NONE     NONE        Silicon     ppm     ASTM D5185m     >20     0         Potassium     ppm     ASTM D5185m     >20     0         Water     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     >5000     ▲ 50231         Particles >6µm     ASTM D7647     >160     76         Particles >1µm     ASTM D7647     >10     0         Particles >38µm     ASTM D7647     >10     0         Particles >31µm     ASTM D7647     >3     0         Particles >38µm     ASTM D7647     >3     0         Particles >51µm     ASTM D7647     >3     0         Oil Cleanliness     scalar     *Visual     NONE         Soltu     s					-		
Silicon     ppm     ASTM D5185m     >20     2         Potassium     ppm     ASTM D5185m     >20     0         Water     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     >5000 <b>A</b> 273246         Particles >6µm     ASTM D7647     >100 <b>A</b> 50231         Particles >6µm     ASTM D7647     >100 <b>A</b> 50231         Particles >1µm     ASTM D7647     >10 <b>O</b> Particles >31µm     ASTM D7647     >10 <b>O</b> Particles >71µm     ASTM D7647     >10 <b>O</b> Particles >51µm     ASTM D7647     >10 <b>O</b> Silt     scalar     *Visual     NONE     NONE         Sodium     scalar     *Visual     NORML     NORML				-			
Potassium     ppm     ASTM D5185m     >20     0         Water     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     >5000     A 273246         Particles >6µm     ASTM D7647     >100          Particles >14µm     ASTM D7647     >100          Particles >21µm     ASTM D7647     >10     0         Particles >38µm     ASTM D7647     >10     0         Particles >71µm     ASTM D7647     >3     0         Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >19/17/14     A 25/23/13         Silt     scalar     *Visual     NONE         Debris     scalar     *Visual     NORM     NORML         O	Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium     ppm     ASTM D5185m     >20     0         Water     WC Method     >0.1     NEG         Particles >4µm     ASTM D7647     >5000     A 273246         Particles >6µm     ASTM D7647     >100          Particles >14µm     ASTM D7647     >100          Particles >21µm     ASTM D7647     >10     0         Particles >38µm     ASTM D7647     >10     0         Particles >71µm     ASTM D7647     >3     0         Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >19/17/14     A 25/23/13         Silt     scalar     *Visual     NONE         Debris     scalar     *Visual     NORM     NORML         O	Silicon	000	ACTM DE105m	. 20	2		
Water     WC Method     >0.1     NEG        Particles >4µm     ASTM D7647     >5000     ▲ 273246        Particles >6µm     ASTM D7647     >1300     ▲ 50231        Particles >14µm     ASTM D7647     >160     76        Particles >21µm     ASTM D7647     >40     12        Particles >38µm     ASTM D7647     >3     0        Particles >38µm     ASTM D7647     >3     0        Particles >71µm     ASTM D7647     >3     0        Particles >71µm     ASTM D7647     >3     0        Particles >71µm     ASTM D7647     >3     0        Oil Cleanliness     ISO 4406 (c)     191714     ▲ 25/23/13        Silt     scalar     *Visual     NONE        Sand/Dirt     scalar     *Visual     NORH        Appearance     scalar     *Visual     NORH        Gotor     s					_		
Particles >4µm     ASTM D7647     >5000     ▲ 273246        Particles >6µm     ASTM D7647     >1300     ▲ 50231        Particles >14µm     ASTM D7647     >160     76        Particles >21µm     ASTM D7647     >40     12        Particles >38µm     ASTM D7647     >40     0        Particles >38µm     ASTM D7647     >3     0        Particles >31µm     ASTM D7647     >3     0        Particles >71µm     ASTM D7647     >3     0        Oil Cleanliness     ISO 4406 (c)     191714     ▲ 25/23/13         Silt     scalar     *Visual     NONE     NONE         Sand/Dirt     scalar     *Visual     NOR     NORM         Appearance     scalar     *Visual     NOR     NORM         Sodium     ppm     ASTM D5185m     2		ррп			-		
Particles >6μm     ASTM D7647     >1300     ▲ 50231        Particles >14μm     ASTM D7647     >160     76        Particles >21μm     ASTM D7647     >10     0        Particles >38µm     ASTM D7647     >10     0        Particles >38µm     ASTM D7647     >10     0        Particles >38µm     ASTM D7647     >3     0        Particles >71µm     ASTM D7647     >3     0        Particles >38µm     ASTM D7647     >3     0        Particles >51µm     ASTM D7647     >3     0        Particles >51µm     ASTM D7647     >3     0        Oil Cleanliness     ISO 4406 (c)     >19/171/4     25/23/13        Silt     scalar     *Visual     NONE         Sad/Dirit     scalar     *Visual     NORM     NORML         Odor     scalar     *Visual     NORML     NOR <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Particles >14µm     ASTM D7647     >160     76        Particles >21µm     ASTM D7647     >40     12        Particles >38µm     ASTM D7647     >10     0        Particles >38µm     ASTM D7647     >10     0        Particles >71µm     ASTM D7647     >3     0        Oil Cleanliness     ISO 4406 (c)     >19/17/14     25/23/13        Silt     scalar     *Visual     NONE     NONE        Debris     scalar     *Visual     NONE     NONE        Sand/Dirt     scalar     *Visual     NORM     NORM        Appearance     scalar     *Visual     NORM     NORML        Odor     scalar     *Visual     NORM     NORML        Boron     ppm     ASTM D5185m     2         Barium     ppm     ASTM D5185m     0         Magnesium     ppm <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>							
Particles >21µmASTM D7647>4012Particles >38µmASTM D7647>100Particles >71µmASTM D7647>30Oil CleanlinessISO 4406 (c)>19/17/14▲ 25/23/13Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORKNONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLBoronppmASTM D5185m2BariumppmASTM D5185m0MalganeseppmASTM D5185m0ManganeseppmASTM D5185m10PhosphorusppmASTM D5185m999PhosphorusppmASTM D5185m841SulfurppmASTM D5185m841Acid Number (AN)mg KOHgASTM D5185m1541	· · ·						
Particles >38µm     ASTM D7647     >10     0         Particles >71µm     ASTM D7647     >3     0         Oil Cleanliness     ISO 4406 (c)     >19/17/14     25/23/13         Silt     scalar     *Visual     NONE     NONE         Debris     scalar     *Visual     NONE     NONE         Sand/Dirt     scalar     *Visual     NORE     NONE         Appearance     scalar     *Visual     NORM     NORML         Odor     scalar     *Visual     NORM     NORML         Gotor     scalar     *Visual     NORM     NORML         Boron     ppm     ASTM D5185m     2         Boron     ppm     ASTM D5185m     0         Manganese     ppm     ASTM D5185m     0					-		
Particles >71µmASTM D7647 >30Oil CleanlinessISO 4406 (c) 19/17/14▲ 25/23/13Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLEmulsified Waterscalar*VisualNORMLSodiumppmASTM D5185m2BoronppmASTM D5185m2BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MagneseppmASTM D5185m10MagnesiumppmASTM D5185m99PhosphorusppmASTM D5185m653ZincppmASTM D5185m841SulfurppmASTM D5185m1541Acid Number (AN)mg KOHgASTM D5185m0.75							
Oil CleanlinessISO 4406 (c)\$19/17/14▲ 25/23/13Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m2BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MagnesiumppmASTM D5185m10PhosphorusppmASTM D5185m999ZincppmASTM D5185m841SulfurppmASTM D5185m53Acid Number (AN)mg KOHgASTM D5185m50.75				-	-		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLSodiumppmASTM D5185m2BoronppmASTM D5185m2BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MagnesiumppmASTM D5185m10MagnesiumppmASTM D5185m999PhosphorusppmASTM D5185m653ZincppmASTM D5185m841SulfurppmASTM D5185m1541Acid Number (AN)mg KOHgASTM D5185m0.75					-		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNORENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLCdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m2BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MagneseppmASTM D5185m0MagnesiumppmASTM D5185m10PhosphorusppmASTM D5185m653ZincppmASTM D5185m841SulfurppmASTM D5185m1541Acid Number (AN)mg KOH/gASTM D5185m0.75		scalar					
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m2BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MagneseppmASTM D5185m0MagnesiumppmASTM D5185m10PhosphorusppmASTM D5185m653ZincppmASTM D5185m841SulfurppmASTM D5185m1541Acid Number (AN)mg KOHgASTM D50450.75							
Appearance     scalar     *Visual     NORML     NORML         Odor     scalar     *Visual     NORML     NORML         Emulsified Water     scalar     *Visual     >0.1     NEG         Sodium     ppm     ASTM D5185m     2         Boron     ppm     ASTM D5185m     2         Barium     ppm     ASTM D5185m     0         Molybdenum     ppm     ASTM D5185m     0         Magnese     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     0         Phosphorus     ppm     ASTM D5185m     99         Zinc     ppm     ASTM D5185m     653         Sulfur     ppm     ASTM D5185m     841    Sulfur     ppm     ASTM D5185m <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>					-		
Odor     scalar     *Visual     NORML     NORML        Emulsified Water     scalar     *Visual     >0.1     NEG         Sodium     ppm     ASTM D5185m     2         Boron     ppm     ASTM D5185m     2         Barium     ppm     ASTM D5185m     0         Molybdenum     ppm     ASTM D5185m     0         Magnese     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     0         Phosphorus     ppm     ASTM D5185m     99         Phosphorus     ppm     ASTM D5185m     653         Zinc     ppm     ASTM D5185m     841         Sulfur     ppm     ASTM D5185m     0.75							
Emulsified Water     scalar     *Visual     >0.1     NEG         Sodium     ppm     ASTM D5185m     2         Boron     ppm     ASTM D5185m     2         Barium     ppm     ASTM D5185m     0         Molybdenum     ppm     ASTM D5185m     0         Magnese     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     0         Calcium     ppm     ASTM D5185m     99         Phosphorus     ppm     ASTM D5185m     653         Zinc     ppm     ASTM D5185m     841         Sulfur     ppm     ASTM D5185m     1541         Acid Number (AN)     mg KOH/g     ASTM D545     0.75							
Sodium     ppm     ASTM D5185m     2         Boron     ppm     ASTM D5185m     2         Barium     ppm     ASTM D5185m     0         Barium     ppm     ASTM D5185m     0         Molybdenum     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     0         Calcium     ppm     ASTM D5185m     99         Phosphorus     ppm     ASTM D5185m     653         Zinc     ppm     ASTM D5185m     841         Sulfur     ppm     ASTM D5185m     1541         Acid Number (AN)     mg KOHg     ASTM D5185m     0.75					-		
Boron     ppm     ASTM D5185m     2         Barium     ppm     ASTM D5185m     0         Molybdenum     ppm     ASTM D5185m     1         Manganese     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     0         Calcium     ppm     ASTM D5185m     99         Phosphorus     ppm     ASTM D5185m     653         Zinc     ppm     ASTM D5185m     841         Sulfur     ppm     ASTM D5185m     1541         Acid Number (AN)     mg KOH/g     ASTM D8045     0.75							
Barium     ppm     ASTM D5185m     0         Molybdenum     ppm     ASTM D5185m     1         Manganese     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     0         Calcium     ppm     ASTM D5185m     99         Phosphorus     ppm     ASTM D5185m     653         Zinc     ppm     ASTM D5185m     841         Sulfur     ppm     ASTM D5185m     1541         Acid Number (AN)     mg KOH/g     ASTM D8045     0.75	Sodium	ppm	ASTM D5185m		2		
Molybdenum     ppm     ASTM D5185m     1        Manganese     ppm     ASTM D5185m     0        Magnesium     ppm     ASTM D5185m     10        Calcium     ppm     ASTM D5185m     99        Phosphorus     ppm     ASTM D5185m     653        Zinc     ppm     ASTM D5185m     841        Sulfur     ppm     ASTM D5185m     1541        Acid Number (AN)     mg KOH/g     ASTM D8045     0.75	Boron	ppm	ASTM D5185m		2		
Manganese     ppm     ASTM D5185m     0         Magnesium     ppm     ASTM D5185m     10         Calcium     ppm     ASTM D5185m     99         Phosphorus     ppm     ASTM D5185m     653         Zinc     ppm     ASTM D5185m     841         Sulfur     ppm     ASTM D5185m     1541         Acid Number (AN)     mg KOH/g     ASTM D8045     0.75	Barium	ppm	ASTM D5185m				
Magnesium     ppm     ASTM D5185m     10         Calcium     ppm     ASTM D5185m     99         Phosphorus     ppm     ASTM D5185m     653         Zinc     ppm     ASTM D5185m     841         Sulfur     ppm     ASTM D5185m     1541         Acid Number (AN)     mg KOH/g     ASTM D8045     0.75	Molybdenum	ppm	ASTM D5185m		1		
Calcium     ppm     ASTM D5185m     99         Phosphorus     ppm     ASTM D5185m     653         Zinc     ppm     ASTM D5185m     841         Sulfur     ppm     ASTM D5185m     1541         Acid Number (AN)     mg KOHg     ASTM D8045     0.75	Manganese	ppm	ASTM D5185m		0		
Phosphorus     ppm     ASTM D5185m     653         Zinc     ppm     ASTM D5185m     841         Sulfur     ppm     ASTM D5185m     1541         Acid Number (AN)     mg KOH/g     ASTM D8045     0.75	-	ppm	ASTM D5185m		10		
Zinc     ppm     ASTM D5185m     841         Sulfur     ppm     ASTM D5185m     1541         Acid Number (AN)     mg KOH/g     ASTM D8045     0.75	Calcium	ppm					
Sulfur     ppm     ASTM D5185m     1541         Acid Number (AN)     mg KOH/g     ASTM D8045     0.75	Phosphorus	ppm			653		
Acid Number (AN)     mg KOH/g     ASTM D8045     0.75			ASTM D5185m		841		
		ppm	ASTM D5185m		1541		
Visc @ 40°C cSt ASTM D445 63.1	,	mg KOH/g					
	Visc @ 40°C	cSt	ASTM D445		63.1		





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