

#### Enviromental Machine Id RTO 4 Hydraulic Unit (S/N EN242) Component Hydraulic System Fluid DEXRON III (--- GAL)

### RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### **WEAR**

All component wear rates are normal.

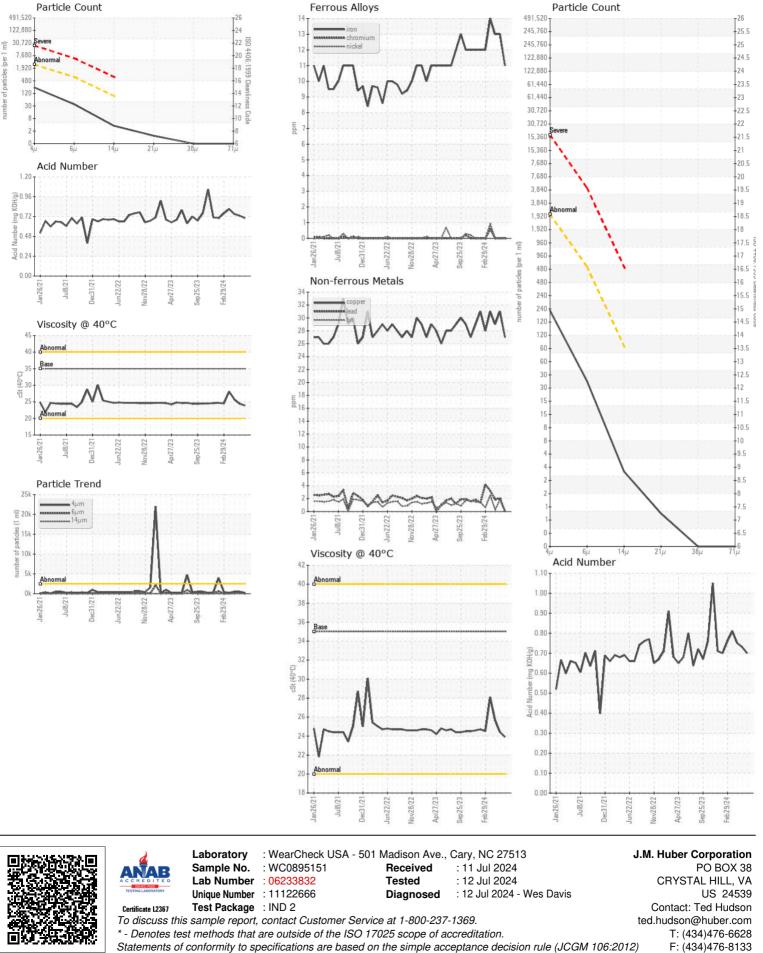
# CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

## FLUID CONDITION

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

Test     UOM     Method     Limit/An     Current     History1     History1     History1       Sample Number     Client Info     0     0     0     0     0       Sample Date     Client Info     0     0     0     0     0       Gli Age     hrs     Client Info     0     0     0     0       Filter Age     hrs     Client Info     N/A     N/A     N/A     N/A       Sample Status     Client Info     N/A     N/A     N/A     N/A     N/A       Sample Status     Client Info     N/A     N/A     N/A     N/A     N/A       Iron     ppm     ASTM D5185m<>20     0     0     0     0       Chromium     ppm     ASTM D5185m<>20     0     11     <1     21       Iron     ppm     ASTM D5185m<>20     0     1     <1     0       Nickel     ppm     ASTM D5185m<>20     21     2     <1     0       Alumium     ppm     A								
Sample Date     Client Info     08 Jul 2024     30 May 2024     23 Apr 2024       Machine Age     hrs     Client Info     0     0     0     0       Oll Age     hrs     Client Info     0     0     0     0     0       Cilent Info     Client Info     N/A     N/A     N/A     N/A     N/A       Sample Status     Client Info     N/A     N/A     N/A     N/A     N/A       Iron     ppm     ASTM 5185m     >20     11     13     13       Chromium     ppm     ASTM 5185m     >20     0     0     0       Silver     ppm     ASTM 55185m     20     0     1     <11			Method	Limit/Abn		-	,	
Machine Age Di Age     hrs     Client Info     0     0     0     0       Filter Age     hrs     Client Info     0     0     0     0       Di Changed     Client Info     N/A     N/A     N/A     N/A       Filter Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     Client Info     N/A     N/A     N/A     N/A       Iron     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Silver     ppm     ASTM D5185m     0     <1     <1     0       Lead     ppm     ASTM D5185m     20     0     0     0     0       Vanadium     ppm     ASTM D5185m     >20     0     2     <1       Vanadium     ppm     ASTM D5185m     >20     0     2     <1       Vanadium     ppm     ASTM D5185m     >20     0     2     1	Sample Num	ber	Client Info		WC0895151	WC0895141	WC0895062	
Oil Age     hrs     Client Info     O     O     O       Filter Age     hrs     Client Info     N/A     N/A     N/A     N/A       Filter Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     Client Info     N/A     N/A     N/A     N/A       Iron     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Silver     ppm     ASTM D5185m     >20     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     1     <-1       Lead     ppm     ASTM D5185m     >20     0     2     2       Tin     ppm     ASTM D5185m     >20     <1     2     -1       Vanadium     ppm     ASTM D5185m     >20     <1     2     -1       Vanadium     ppm     ASTM D5185m     >20     0     2     -1	Sample Date	е	Client Info		08 Jul 2024	30 May 2024	23 Apr 2024	
Filter Age     hrs     Client Info     N/A     N/A     N/A       Filter Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     Client Info     N/A     N/A     N/A     N/A       Iron     ppm     ASTM D5185m     >20     11     13     13       Chromium     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     1     <1       Auminum     ppm     ASTM D5185m     >20     0     2     2       Copper     ppm     ASTM D5185m     >20     2     1     2     <1       Vanadium     ppm     ASTM D5185m     >20     2     1     2     <1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Potassium     ppm     ASTM D5185m     >20     0     2	Machine Ag	e hrs	Client Info		0	0	0	
Oil Changed     Client Info     N/A     N/A     N/A     N/A       Filter Changed     Client Info     N/A     N/A     N/A     N/A       Sample Status     Client Info     N/A     N/A     N/A     N/A       Iron     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     1     0       Silver     ppm     ASTM D5185m     >20     0     1     1     1       Lead     ppm     ASTM D5185m     >20     0     1     2     1       Vanadium     ppm     ASTM D5185m     >20     27     31     29     1       Vanadium     ppm     ASTM D5185m     >20     C1     2     1       Vanadium     ppm     ASTM D5185m     >15     C1     2     1       Vanadium     ppm     ASTM D5185m     >20     0	Oil Age	hrs	Client Info		0	0	0	
Filter Changed Sample Status     Client Info     N/A     N/A     N/A     N/A       Iron     ppm     ASTM D5185m     >20     11     13     13       Chromium     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Silver     ppm     ASTM D5185m     0     -     1     0       ASTM D5185m     0     0     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     2     2       Copper     ppm     ASTM D5185m     >20     0     2     1       Vanadium     ppm     ASTM D5185m     >20     0     0     0       Water     WC Method     >.005     NONE     NONE     NONE     NONE       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Vanadium     ppm     ASTM D5185m     >20     0     2     1	Filter Age	hrs	Client Info		0	0	0	
Sample Status     NORMAL     ABNORMAL     NORMAL       Iron     ppm     ASTM D5185m     >20     0     0     0       Chromium     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Silver     ppm     ASTM D5185m     0     0     1     1       Lead     ppm     ASTM D5185m     >20     0     2     2       Copper     ppm     ASTM D5185m     >20     0     2     2       Vanadium     ppm     ASTM D5185m     >20     C1     2     -1       Vanadium     ppm     ASTM D5185m     >20     C1     2     -1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Vanadium     ppm     ASTM D5185m     >20     0     2     <1       Vellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE	Oil Changed	ł	Client Info		N/A	N/A	N/A	
Iron     ppm     ASTM D5185m     >20     11     13     13       Chromium     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Titanium     ppm     ASTM D5185m     0     -<1     0       Silver     ppm     ASTM D5185m     >20     0     1     -<1       Lead     ppm     ASTM D5185m     >20     0     2     2       Copper     ppm     ASTM D5185m     >20     0     0     0       White Mature     scalar     *Visual     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Paticles >4µm     ASTM D7647     >20     0     <	Filter Chang	ed	Client Info		N/A	N/A	N/A	
Chromium     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Silver     ppm     ASTM D5185m     0     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     1     <1       Lead     ppm     ASTM D5185m     >20     0     2     2       Copper     ppm     ASTM D5185m     >20     21     2     <1       Vanadium     ppm     ASTM D5185m     >20     <1     2     <1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Potassium     ppm     ASTM D5185m     >20     0     2     <1       Paticles >4µm     ASTM D7647     >20     0     2     0 </th <th>Sample Stat</th> <th>us</th> <th></th> <th></th> <th>NORMAL</th> <th>ABNORMAL</th> <th>NORMAL</th>	Sample Stat	us			NORMAL	ABNORMAL	NORMAL	
Chromium     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     >20     0     0     0       Silver     ppm     ASTM D5185m     0     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     1     <1       Lead     ppm     ASTM D5185m     >20     0     2     2       Copper     ppm     ASTM D5185m     >20     21     2     <1       Vanadium     ppm     ASTM D5185m     >20     <1     2     <1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Potassium     ppm     ASTM D5185m     >20     0     2     <1       Paticles >4µm     ASTM D7647     >20     0     2     0 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
Nickel     ppm     ASTM D5185m     >20     0     0     0     0       Titanium     ppm     ASTM D5185m     0     0     0     0       Silver     ppm     ASTM D5185m     20     0     1     1       Lead     ppm     ASTM D5185m     >20     0     2     2       Copper     ppm     ASTM D5185m     >20     27     31     29       Tin     ppm     ASTM D5185m     >20     <1     2     <1       Vanadium     ppm     ASTM D5185m     >20     <1     2     <1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Velow Metal     scalar     "Visual     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m     >15     <1     2     1       Potassium     ppm     ASTM D7647     >200     3     45     9       Particles >4µm     ASTM D7647     >20     1	-							
Titanium     ppm     ASTM D5185m     O     <1		ppm			-			
Silver     ppm     ASTM D5185m     0     0     0     0       Aluminum     ppm     ASTM D5185m     >20     0     1     <1       Lead     ppm     ASTM D5185m     >20     0     2     2       Copper     ppm     ASTM D5185m     >20     27     31     29       Tin     ppm     ASTM D5185m     >20     <1     2     <1       Vanadium     ppm     ASTM D5185m     >20     <1     2     <1       Vanadium     ppm     ASTM D5185m     >20     <1     2     1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Vanadium     ppm     ASTM D5185m     >20     0     2     <1       Valex     WC Method     >0.05     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >20     0     2     <1       Particles >54µm     ASTM D7647     >80     3     45     9 <t< th=""><th></th><th>ppm</th><th></th><th>&gt;20</th><th>-</th><th>0</th><th></th></t<>		ppm		>20	-	0		
Aluminum     ppm     ASTM D5185m     >20     0     1     <1		ppm			-			
Lead     ppm     ASTM D5185m     >20     0     2     2       Copper     ppm     ASTM D5185m     >20     27     31     29       Tin     ppm     ASTM D5185m     >20     <1     2     <1       Vanadium     ppm     ASTM D5185m     >20     <1     2     <1       Vanadium     ppm     ASTM D5185m     >20     <1     2     <1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Vanadium     ppm     ASTM D5185m     >15     <1     2     1       Potassium     ppm     ASTM D5185m     >20     0     2     <1       Water     WC Method     >0.05     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >20     1     15     1       Particles >21µm     ASTM D7647     >20     1     15     1       Particles >21µm     ASTM D7647     >3     0     0     0       Ol Clean					-		-	
Copper     ppm     ASTM D5185m     >20     27     31     29       Tin     ppm     ASTM D5185m     >20     <1     2     <1       Vanadium     ppm     ASTM D5185m     0     0     0     0       White Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m     >15     <1     2     1       Potassium     ppm     ASTM D5185m     >20     0     2     <1       Water     WC Method     >0.05     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >200     1     15     1       Particles >21µm     ASTM D7647     >20     1     15     1       Particles >21µm     ASTM D7647     >3     0     0     0       Oli Cleanliness     ISO 4406 (c)     >18/6/13     15/12/9     1		ppm			-			
Tin     ppm     ASTM D5185m     >20     <1					-			
Vanadium     ppm     ASTM D5185m     0     0     0     0       White Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m     >15     <1     2     1       Potassium     ppm     ASTM D5185m     >20     0     2     <1       Water     WC Method     >0.05     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >640     32     265     151       Particles >14µm     ASTM D7647     >20     1     15     1       Particles >38µm     ASTM D7647     >20     1     15     1       Particles >38µm     ASTM D7647     >3     0     0     0       Oli Cleanliness     ISO 4406 (c)     >18/16/13     15/12/9     16/15/13     16/14/10       Silt     scalar     *Visual     NONE     NONE								
White Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m     >15     <1     2     1       Potassium     ppm     ASTM D5185m     >20     0     2     <1       Water     WC Method     >0.05     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >200     202     487     545       Particles >51µm     ASTM D7647     >20     1     15     1       Particles >21µm     ASTM D7647     >20     1     15     1       Particles >21µm     ASTM D7647     >3     0     0     0     0       Oil Cleanliness     ISO 4406 (c)     >1816/13     15/12/9     16/15/13     16/14/10       Sitt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE				>20				
Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m     >15     <1     2     1       Potassium     ppm     ASTM D5185m     >20     0     2     <1       Water     WC Method     >0.05     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >2500     202     487     545       Particles >6µm     ASTM D7647     >640     32     265     151       Particles >14µm     ASTM D7647     >80     3     45     9       Particles >38µm     ASTM D7647     >4     0     2     0       Particles >71µm     ASTM D7647     3     0     0     0     0       Oil Cleanliness     ISO 4406 (>     >8/8/16/13     16/14/10     NONE     NONE     NONE     NONE       Sadd/Dirt     scalar     *Visual     NONE     NONE     NONE     NORML     NORML       Appearance     scalar     *Visual     NORML <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>-</th> <th></th>					-	-		
Silicon     ppm     ASTM D5185m     >15     <1					-			
Potassium     ppm     ASTM D5185m     >20     0     2     <1	Yellow Meta	l scalar	*Visual	NONE	NONE	NONE	NONE	
Potassium     ppm     ASTM D5185m     >20     0     2     <1	Silicon	nnm	ASTM D5185m	<u>\15</u>	-1	2	1	
Water     WC Method     >0.05     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >2500     202     487     545       Particles >6µm     ASTM D7647     >640     32     265     151       Particles >14µm     ASTM D7647     >80     3     45     9       Particles >21µm     ASTM D7647     >20     1     15     1       Particles >38µm     ASTM D7647     >20     1     15     1       Particles >71µm     ASTM D7647     >3     0     0     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/12/9     16/15/13     16/14/10       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORM     NORML     NORML								
Particles >4µm     ASTM D7647     >2500     202     487     545       Particles >6µm     ASTM D7647     >640     32     265     151       Particles >14µm     ASTM D7647     >80     3     45     9       Particles >21µm     ASTM D7647     >20     1     15     1       Particles >38µm     ASTM D7647     >4     0     2     0       Particles >71µm     ASTM D7647     >3     0     0     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/12/9     16/15/13     16/14/10       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORM     NORML     NORML     NORML       Boron     ppm     ASTM D5185m     0     <1		ppin			-			
Particles >6µm     ASTM D7647     >640     32     265     151       Particles >14µm     ASTM D7647     >80     3     45     9       Particles >21µm     ASTM D7647     >20     1     15     1       Particles >38µm     ASTM D7647     >4     0     2     0       Particles >71µm     ASTM D7647     >3     0     0     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/12/9     16/15/13     16/14/10       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NORML     NORML     NORML     NORML       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML       Emulsified Water     scalar     *Visual     NORML     NORML     NORML     NORML       Boron     ppm     ASTM D5185m     0     <10     0<		ım						
Particles >14µm     ASTM D7647     >80     3     45     9       Particles >21µm     ASTM D7647     >20     1     15     1       Particles >38µm     ASTM D7647     >4     0     2     0       Particles >71µm     ASTM D7647     >3     0     0     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/12/9     16/15/13     16/14/10       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NORE     NORE     NORE     NORE       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML       Emulsified Water     scalar     *Visual     >0.05     NEG     0.2%     NEG       Sodium     ppm     ASTM D5185m     0								
Particles >21µm     ASTM D7647     >20     1     15     1       Particles >38µm     ASTM D7647     >4     0     2     0       Particles >71µm     ASTM D7647     >3     0     0     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/12/9     16/15/13     16/14/10       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NORML       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     >0.05     NEG     0.2%     NEG       Sodium     ppm     ASTM D5185m     0					-			
Particles >38µm     ASTM D7647     >4     0     2     0       Particles >71µm     ASTM D7647     >3     0     0     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/12/9     16/15/13     16/14/10       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     >0.05     NEG     0.2%     NEG       Sodium     ppm     ASTM D5185m     13     14     13       Boron     ppm     ASTM D5185m     0     <1     0       Magnesium     ppm					-			
Particles >71µm     ASTM D7647     >3     0     0     0       Oil Cleanliness     ISO 4406 (c)     >18/16/13     15/12/9     16/15/13     16/14/10       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NONE       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     >0.05     NEG     0.2%     NEG       Sodium     ppm     ASTM D5185m     13     14     13       Boron     ppm     ASTM D5185m     0     <1     0       Malganese     ppm					-			
Oil CleanlinessISO 4406 (c)>18/16/1316/14/10Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG0.2%NEGSodiumppmASTM D5185m131413BoronppmASTM D5185m0<10MolybdenumppmASTM D5185m0<1<1MagnesiumppmASTM D5185m210CalciumppmASTM D5185m261256240ZincppmASTM D5185m383333SulfurppmASTM D5185m11071003979Acid Number (AN)mg KOH/gASTM D50450.700.730.75					-			
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG0.2%NEGSodiumppmASTM D5185m131413BoronppmASTM D5185m718172BariumppmASTM D5185m0<10MolybdenumppmASTM D5185m0<1<1MagnesiumppmASTM D5185m2210CalciumppmASTM D5185m104101101PhosphorusppmASTM D5185m383333SulfurppmASTM D5185m11071003979Acid Number (AN)mg KOHgASTM D80450.700.730.75		·			-		16/14/10	
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG0.2%NEGSodiumppmASTM D5185m131413BoronppmASTM D5185m718172BariumppmASTM D5185m0<10MolybdenumppmASTM D5185m0<1<1MagnesiumppmASTM D5185m210CalciumppmASTM D5185m104101101PhosphorusppmASTM D5185m383333SulfurppmASTM D5185m11071003979Acid Number (AN)mg KOHgASTM D80450.700.730.75			( )					
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG0.2%NEGSodiumppmASTM D5185m131413BoronppmASTM D5185m718172BariumppmASTM D5185m0<10MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m210CalciumppmASTM D5185m210PhosphorusppmASTM D5185m261256240ZincppmASTM D5185m383333SulfurppmASTM D5185m0.700.730.75					-			
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG0.2%NEGSodiumppmASTM D5185m131413BoronppmASTM D5185m718172BariumppmASTM D5185m0<10MolybdenumppmASTM D5185m0<1<1MagnesiumppmASTM D5185m210CalciumppmASTM D5185m104101101PhosphorusppmASTM D5185m383333SulfurppmASTM D5185m11071003979Acid Number (AN)mg KOH/gASTM D80450.700.730.75	Sand/Dirt							
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG0.2%NEGSodiumppmASTM D5185m131413BoronppmASTM D5185m0<10BariumppmASTM D5185m0<10MolybdenumppmASTM D5185m0<1<1MagneseppmASTM D5185m0<1<1MagnesiumppmASTM D5185m210CalciumppmASTM D5185m104101101PhosphorusppmASTM D5185m261256240ZincppmASTM D5185m383333SulfurppmASTM D5185m11071003979Acid Number (AN)mg KOH/gASTM D80450.700.730.75								
Emulsified Water     scalar     *Visual     >0.05     NEG     0.2%     NEG       Sodium     ppm     ASTM D5185m     13     14     13       Boron     ppm     ASTM D5185m     71     81     72       Barium     ppm     ASTM D5185m     0     <1     0       Molybdenum     ppm     ASTM D5185m     0     <1     0       Magnese     ppm     ASTM D5185m     0     <1     <1       Magnesium     ppm     ASTM D5185m     2     1     0       Calcium     ppm     ASTM D5185m     261     256     240       Zinc     ppm     ASTM D5185m     38     33     33       Sulfur     ppm     ASTM D5185m     1107     1003     979       Acid Number (AN)     mg KOH/g     ASTM D8045     0.70     0.73     0.75					NORML			
Sodium     ppm     ASTM D5185m     13     14     13       Boron     ppm     ASTM D5185m     71     81     72       Barium     ppm     ASTM D5185m     0     <1     0       Molybdenum     ppm     ASTM D5185m     0     <1     0       Manganese     ppm     ASTM D5185m     0     <1     <1       Magnesium     ppm     ASTM D5185m     2     1     0       Calcium     ppm     ASTM D5185m     261     256     240       Zinc     ppm     ASTM D5185m     38     33     33       Sulfur     ppm     ASTM D5185m     1007     1003     979       Acid Number (AN)     mg KOH/g     ASTM D8045     0.70     0.73     0.75	Emulsified Wa	ater scalar		>0.05	NEG	0.2%	NEG	
Boron     ppm     ASTM D5185m     71     81     72       Barium     ppm     ASTM D5185m     0     <1     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Maganese     ppm     ASTM D5185m     0     <1     <1       Magnesium     ppm     ASTM D5185m     2     1     0       Calcium     ppm     ASTM D5185m     261     101     101       Phosphorus     ppm     ASTM D5185m     261     256     240       Zinc     ppm     ASTM D5185m     38     33     33       Sulfur     ppm     ASTM D5185m     1007     1003     979       Acid Number (AN)     mg KOH/g     ASTM D8045     0.70     0.73     0.75								
Barium     ppm     ASTM D5185m     0     <1	Sodium	ppm			13			
Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     0     <1     <1       Magnesium     ppm     ASTM D5185m     2     1     0       Calcium     ppm     ASTM D5185m     104     101     101       Phosphorus     ppm     ASTM D5185m     261     256     240       Zinc     ppm     ASTM D5185m     38     33     33       Sulfur     ppm     ASTM D5185m     1107     1003     979       Acid Number (AN)     mg KOH/g     ASTM D8045     0.70     0.73     0.75		ppm			71		72	
Manganese     ppm     ASTM D5185m     0     <1							0	
Magnesium     ppm     ASTM D5185m     2     1     0       Calcium     ppm     ASTM D5185m     104     101     101       Phosphorus     ppm     ASTM D5185m     261     256     240       Zinc     ppm     ASTM D5185m     38     33     33       Sulfur     ppm     ASTM D5185m     1107     1003     979       Acid Number (AN)     mg KOH/g     ASTM D8045     0.70     0.73     0.75	-	n ppm	ASTM D5185m		0		0	
Calcium     ppm     ASTM D5185m     104     101     101       Phosphorus     ppm     ASTM D5185m     261     256     240       Zinc     ppm     ASTM D5185m     38     33     33       Sulfur     ppm     ASTM D5185m     1107     1003     979       Acid Number (AN)     mg KOH/g     ASTM D8045     0.70     0.73     0.75	-	ppm						
Phosphorus     ppm     ASTM D5185m     261     256     240       Zinc     ppm     ASTM D5185m     38     33     33       Sulfur     ppm     ASTM D5185m     1107     1003     979       Acid Number (AN)     mg KOH/g     ASTM D8045     0.70     0.73     0.75	-	ppm						
Zinc     ppm     ASTM D5185m     38     33     33       Sulfur     ppm     ASTM D5185m     1107     1003     979       Acid Number (AN)     mg KOH/g     ASTM D8045     0.70     0.73     0.75								
Sulfur     ppm     ASTM D5185m     1107     1003     979       Acid Number (AN)     mg KOH/g     ASTM D8045     0.70     0.73     0.75		ppm						
Acid Number (AN) mg KOH/g ASTM D8045 0.70 0.73 0.75	-							
							979	
Visc @ 40°C cSt ASTM D445 35.0 23.9 24.4 25.7	,	,						
	Visc @ 40°0	cSt	ASTM D445	35.0	23.9	24.4	25.7	



Contact/Location: Ted Hudson - JMHCRY Page 2 of 2