

# WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

# **Mobile Fleet**

8035 8035 Component Transmission (Auto) Fluid SAE 40W (5 GAL)

### RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### WEAR

All component wear rates are normal.

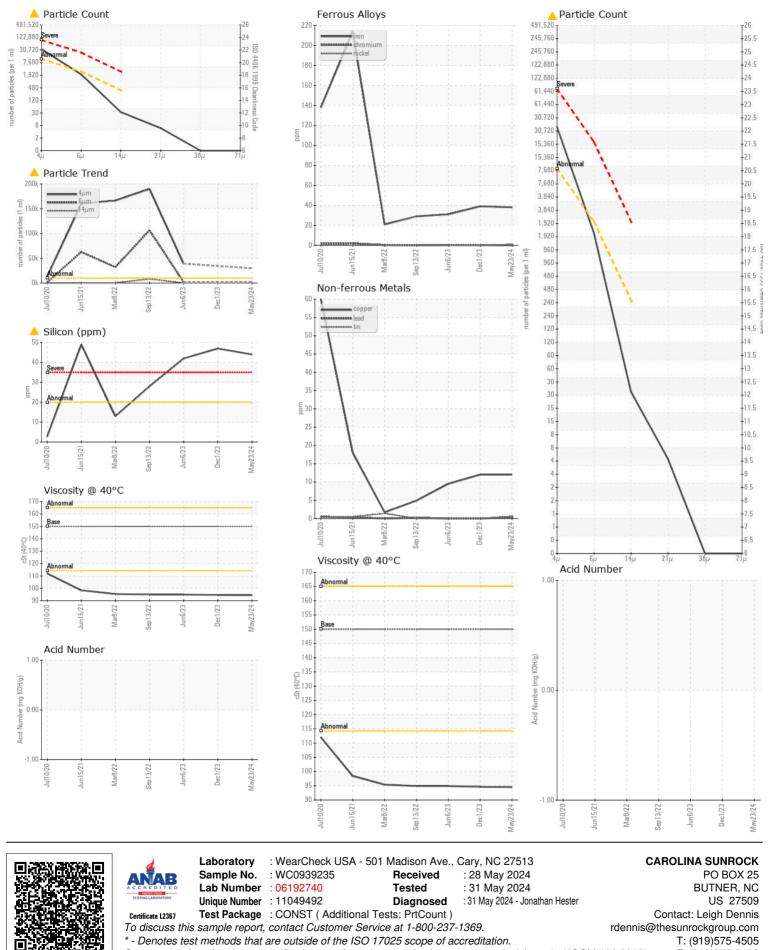
## CONTAMINATION

There is a high amount of silt (particulates < 6 microns in size) present in the fluid. Elemental level of silicon (Si) above normal indicating ingress of seal material.

### FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Test     UOM     Method     Limit/An     Current     History1     History2       Sample Number     Client Info     W00939233     W00861712     W00770888       Sample Date     Client Info     S978     5333     4213       Ol Age     hrs     Client Info     2859     5331     1094       Ol Age     hrs     Client Info     2859     5331     1094       Ol Changed     Client Info     Changed     Not Changd     Not Changd       Filter Changed     Client Info     Changed     Not Changd     Not Changd       Sample Status     -     ABNORMAL     ABNORMAL     ABNORMAL     ABNORMAL       Nickel     ppm     ASTM D5185m     >50     -1     0     0       Nickel     ppm     ASTM D5185m     >50     -1     0     0       Lead     ppm     ASTM D5185m     >50     -1     0     0       Vanadium     ppm     ASTM D5185m     >50     -1     0     0       Vanadum     ppm							
Sample Date     Client Info     23 May 2024     01 Dec 2023     06 Jun 2023       Machine Age     hrs     Client Info     5978     5333     4213       Oil Age     hrs     Client Info     2859     5331     1094       Filter Age     hrs     Client Info     2859     2314     1094       Oil Changed     Client Info     Changed     Not Changd     Not Changd       Sample Status     Silto Silton     5100     ABNORMAL     ABNORMAL     ABNORMAL       Iron     ppm     ASTM D5185m     55     0     <1	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age     hrs     Client Info     5978     5333     4213       Cil Age     hrs     Client Info     2859     5331     1094       Filter Age     hrs     Client Info     Changed     Not Changed     Not Changed       Sample Status     Client Info     Changed     Not Changed     Not Changed       Iron     ppm     ASTM D5185m     >160     38     39     31       Chromium     ppm     ASTM D5185m     >55     0     <1     0     <1       Nickel     ppm     ASTM D5185m     >50     3     3     <1     0       Aluminum     ppm     ASTM D5185m     >50     3     3     <1     0       Vanadium     ppm     ASTM D5185m     >50     3     3     <1     0       Vanadium     ppm     ASTM D5185m     >50     3     3     <1     0       Vanadium     ppm     ASTM D5185m     >20     <     1     1     0       Vanadium     pp	Sample Number		Client Info		WC0939235	WC0861712	WC0770988
Oil Age     hrs     Client Info     2859     5331     1094       Filter Age     hrs     Client Info     2859     2214     1094       Oil Changed     Client Info     Changed     Not Changed     Not Changed       Filter Changed     Client Info     Changed     Not Changed     Not Changed       Sample Status     Client Info     Changed     ABNORMAL     ABNORMAL     ABNORMAL       Iron     ppm     ASTM D5185m     >5     <1     0     0       Nickel     ppm     ASTM D5185m     >50     3     3.3     <1       Qopper     ppm     ASTM D5185m     >50     -1     0     0       Vanadium     ppm     ASTM D5185m     >50     -1     0     0       Vanadium     ppm     ASTM D5185m     >50     -1     0     0       Vanadium     ppm     ASTM D5185m     >20     -1     1     0       Vanadium     ppm     ASTM D5185m     >20     -1     -1     0	Sample Date		Client Info		23 May 2024	01 Dec 2023	06 Jun 2023
Filter Age     hrs     Client Info     2859     2214     1094       Oil Changed     Client Info     Changed     Not Changd     Not Changd       Sample Status     Client Info     Changed     Not Changd     Not Changd       Iron     ppm     ASTM D5185m     >160     38     39     31       Chromium     ppm     ASTM D5185m     >5     <1     0     0       Nickel     ppm     ASTM D5185m     >5     <1     1     0       Nickel     ppm     ASTM D5185m     >50     3     3     <1       Lead     ppm     ASTM D5185m     >50     3     3     <1       Lead     ppm     ASTM D5185m     >50     3     3     <1       Visual     NONE     NONE     NONE     NONE     NONE     NONE       Yellow Metal     scalar     Yusual     NONE     NONE     NONE     NONE     NONE       Yellow Metal     scalar     Yusual     NONE     NONE     NONE <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>5978</th> <th>5333</th> <th>4213</th>	Machine Age	hrs	Client Info		5978	5333	4213
Oil Changed Filter Changed Sample StatusClient Info Client InfoChanged Changed ABNORMALNot Changd Not Changd ABNORMALNot Changd Not Changd Not Changd ABNORMALNot Changd Not Changd Not Changd ABNORMALNot Changd Not Changd Not Changd ABNORMALNot Changd Not Changd Not Changd Not ChangdNot Changd Not Changd Not Changd ABNORMALNot Changd ABNORMALNot Changd Not Changd Not Changd ABNORMALIronppmASTM D5185m ASTM D5185m50<100<1NickelppmASTM D5185m ASTM D5185m>50<1000AluminumppmASTM D5185m ASTM D5185m>50<10000VanadiumppmASTM D5185m ASTM D5185m>0<100000VanadiumppmASTM D5185m ASTM D5185m>20<1<10000VanadiumppmASTM D5185m ASTM D5185m>20<44	Oil Age	hrs	Client Info		2859	5331	1094
Filter Changed Sample Status     Client Info     Changed ABNORMAL     Not Changed ABNORMAL     Not Changed ABNORMAL     Not Changed ABNORMAL       Iron     ppm     ASTM D5185m     >160     38     39     31       Chromium     ppm     ASTM D5185m     >5     0     <1     <1       Nickel     ppm     ASTM D5185m     >5     <1     0     0       Silver     ppm     ASTM D5185m     >50     <1     1     0       Aluminum     ppm     ASTM D5185m     >50     <1     0     0       Copper     ppm     ASTM D5185m     >50     <1     0     0       Vanadium     ppm     ASTM D5185m     >20     <1     0     0       Vanadium     ppm     ASTM D5185m     >20     <1     0     0       Vanadium     ppm     ASTM D5185m     >20     <1     <1     0       Vanadium     ppm     ASTM D5185m     >20     <5     <1     <1     1       Yellow Metal	Filter Age	hrs	Client Info		2859	2214	1094
Sample Status     ABNORMAL     ABNORMAL     ABNORMAL     ABNORMAL     ABNORMAL       Iron     ppm     ASTM D5185m     >160     38     39     31       Chromium     ppm     ASTM D5185m     >5     <1     0     0       Nickel     ppm     ASTM D5185m     >5     <1     0     0       Silver     ppm     ASTM D5185m     >50     3     3     <1       Lead     ppm     ASTM D5185m     >50     <1     0     0       Copper     ppm     ASTM D5185m     >205     12     12     10       Tin     ppm     ASTM D5185m     >205     12     0     0       Variadium     ppm     ASTM D5185m     >20     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE<	Oil Changed		Client Info		Changed	Not Changd	Not Changd
Iron     ppm     ASTM D5185m     >160     38     39     31       Chromium     ppm     ASTM D5185m     >5     0     <1     0     0       Nickel     ppm     ASTM D5185m     >5     <1     0     0     <11       Silver     ppm     ASTM D5185m     >50     3     3     <1       Lead     ppm     ASTM D5185m     >50     3     3     <1       Lead     ppm     ASTM D5185m     >50     3     3     <1       Copper     ppm     ASTM D5185m     >10     <1     0     0       Vanadium     ppm     ASTM D5185m     >10     <1     0     0       Vanadium     ppm     ASTM D5185m     >20     A     44     47     42       Potassium     ppm     ASTM D5185m     >20     5     <1     <1     10       Vater     WC Method     >0.1     NCE     NCNE     NCNE     NCNE       Particles >4µm     ASTM D	Filter Changed		Client Info		Changed	Not Changd	Not Changd
Iron     ppm     ASTM D5185m     >160     38     39     31       Chromium     ppm     ASTM D5185m     >5     0     <1     0     0       Nickel     ppm     ASTM D5185m     >5     <1     0     0     <11       Silver     ppm     ASTM D5185m     >50     3     3     <1       Lead     ppm     ASTM D5185m     >50     3     3     <1       Lead     ppm     ASTM D5185m     >50     3     3     <1       Copper     ppm     ASTM D5185m     >10     <1     0     0       Vanadium     ppm     ASTM D5185m     >10     <1     0     0       Vanadium     ppm     ASTM D5185m     >20     A     44     47     42       Potassium     ppm     ASTM D5185m     >20     5     <1     <1     10       Vater     WC Method     >0.1     NCE     NCNE     NCNE     NCNE       Particles >4µm     ASTM D	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Chromium     ppm     ASTM D5185m     >5     0     <1							
Nickel     ppm     ASTM D5185m     >5     <1	Iron	ppm	ASTM D5185m	>160	38	39	31
Titanium     ppm     ASTM D5185m     0     0     <1	Chromium	ppm	ASTM D5185m	>5	-	<1	<1
Silver     ppm     ASTM D5185m     >5     <1	Nickel	ppm	ASTM D5185m	>5	<1	0	-
Aluminum     ppm     ASTM D5185m     >50     3     3     <1	Titanium	ppm	ASTM D5185m		0	0	<1
Lead     ppm     ASTM D5185m     >50     <1	Silver	ppm	ASTM D5185m	>5	<1	1	0
Copper     ppm     ASTM D5185m     >225     12     12     10       Tin     ppm     ASTM D5185m     >10     <1     0     0       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     >20 <b>5</b> <1     <1       Water     WC Method     >0.1     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >200 <b>1836</b> 1628       Particles >6µm     ASTM D7647     >320 <b>29</b> 111       Particles >1µm     ASTM D7647     >40     0      0       Oli Cleanliness     ISO 4406 (c)     >201816 <b>2218/12</b> 4 22/18/11       Silit     scalar     *Visual     NONE	Aluminum	ppm	ASTM D5185m	>50	3	3	<1
Tin     ppm     ASTM D5185m     >10     <1	Lead	ppm	ASTM D5185m	>50	<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     >20     5     <1     <1       Potassium     ppm     ASTM D5185m     >20     5     <1     <1       Water     WC Method     >0.1     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >2000     29833      1628       Particles >14µm     ASTM D7647     >20     0      1628       Particles >38µm     ASTM D7647     >20     0      0       Oli Cleanliness     ISO 4406 (c)     >2018/15     4     22/18/12      4     22/18/11       Silt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE     NORE     NORE	Copper	ppm	ASTM D5185m	>225	12	12	10
White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>2044442PotassiumppmASTM D5185m>205<1<1WaterWC Method>0.1NEGNEGNEGParticles >4µmASTM D7647>200042968338966Particles >6µmASTM D7647>320291628Particles >14µmASTM D7647>30052Particles >71µmASTM D7647>2000Particles >71µmASTM D7647>400Oil CleanlinessISO 4406 (c)>20181622/18/12422/18/11Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORLNORMLNORMLNORMLNORMLAppearancescalar*VisualNORLNORMLNORMLNORMLNORMLOdorscalar*VisualNORLNORMLNORMLNORMLNORMLMolybdenumppmASTM D5185m313282309309BariumppmASTM D5185m000<1Manganesep	Tin	ppm	ASTM D5185m	>10		0	
Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m     >20     ▲ 44     ▲ 47     ▲ 42       Potassium     ppm     ASTM D5185m     >20     5     <1     <1       Water     WC Method     >0.1     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >2000     ▲ 29683      ▲ 38966       Particles >6µm     ASTM D7647     >200     1836      1628       Particles >6µm     ASTM D7647     >20     0      0       Particles >1µm     ASTM D7647     >20     0      0       Particles >71µm     ASTM D7647     >20     0      0       Oil Cleanliness     ISO 4406 (c)     >201815     ▲ 22/18/12      4< 22/18/11       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NORE     NORM     NORM	Vanadium	ppm	ASTM D5185m		0	0	0
Silicon     ppm     ASTM D5185m     >20     4 44     47     42       Potassium     ppm     ASTM D5185m     >20     5     <1     <1       Water     WC Method     >0.1     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >10000     29683      A 38966       Particles >6µm     ASTM D7647     >2500     1836      1628       Particles >6µm     ASTM D7647     >320     29      1628       Particles >14µm     ASTM D7647     >20     0      0       Particles >38µm     ASTM D7647     >20     0      0       Particles >71µm     ASTM D7647     >20     0      0       Oil Cleanliness     ISO 4406 (c)     >201816     2218/12      0       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NORM     NORM     NORML     NORML     NORML	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium     ppm     ASTM D5185m     >20     5     <1	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium     ppm     ASTM D5185m     >20     5     <1							
Water     WC Method     >0.1     NEG     NEG     NEG       Particles >4µm     ASTM D7647     >10000     ▲ 29683      ▲ 38966       Particles >6µm     ASTM D7647     >2500     1836      1628       Particles >14µm     ASTM D7647     >320     29      11       Particles >21µm     ASTM D7647     >80     5      2       Particles >38µm     ASTM D7647     >20     0      0       Particles >71µm     ASTM D7647     >20     0      0       Particles >71µm     ASTM D7647     >20     0      0       Oil Cleanliness     ISO 4406 (c)     >01815     ▲ 22/18/12      ▲ 22/18/11       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NORML     NORML     NORML     NORML       Appearance     scalar     *Visual     NORML     NORML     NORML     NOR							
Particles >4µm     ASTM D7647     >10000     ▲ 29683      ▲ 38966       Particles >6µm     ASTM D7647     >2500     1836      1628       Particles >14µm     ASTM D7647     >320     29      11       Particles >21µm     ASTM D7647     >80     5      0       Particles >38µm     ASTM D7647     >20     0      0       Particles >71µm     ASTM D7647     >4     0      0       Particles >71µm     ASTM D7647     >4     0      0       Oil Cleanliness     ISO 4406 (c)     >2018/15     22/18/12      4     22/18/11       Silt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NORL     NORML     NORML     NORML     NORML       Appearance     scalar     *Visual     NORL     NORML     NORML     NORML       Emulsified Water     scalar     *Visual		ppm			-		
Particles >6µm     ASTM D7647     >2500     1836      1628       Particles >14µm     ASTM D7647     >320     29      11       Particles >21µm     ASTM D7647     >80     5      2       Particles >38µm     ASTM D7647     >20     0      0       Particles >71µm     ASTM D7647     >4     0      0       Oil Cleanliness     ISO 4406 (c)     >2018/15     22/18/12      4<22/18/11       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NORM     NORML     NORML     NORML       Appearance     scalar     *Visual     NORM     NORML     NORML     NORML       Emulsified Water     scalar     *Visual     >0.1     NEG     NEG     NEG       Boron     ppm     ASTM D5185m     3     3							
Particles >14µm     ASTM D7647     >320     29      11       Particles >21µm     ASTM D7647     >80     5      2       Particles >38µm     ASTM D7647     >20     0      0       Particles >71µm     ASTM D7647     >4     0      0       Oil Cleanliness     ISO 4406 (c)     >201815     22/18/12      22/18/11       Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NOR     NORM     NORM     NORM       Appearance     scalar     *Visual     NORM     NORML     NORML     NORML       Odor     scalar     *Visual     NORM     NORML     NORML     NORML       Ddor     scalar     *Visual     NOR     NORML     NORML     NORML       More     scalar     *Visual     NOR     NORM							
Particles >21µm     ASTM D7647     >80     5      2       Particles >38µm     ASTM D7647     >20     0      0       Particles >71µm     ASTM D7647     >4     0      0       Oil Cleanliness     ISO 4406 (c)     >2018/15     ▲ 22/18/12      ▲ 22/18/11       Silt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NOR     NORE     NORML     NORML       Appearance     scalar     *Visual     NORM     NORML     NORML     NORML       Odor     scalar     *Visual     NORM     NORML     NORML     NORML       Emulsified Water     scalar     *Visual     NOR     NORM     NORML     NORML       Boron     ppm     ASTM D5185m     3     3     1     1       Magnaesium     ppm	· · ·						
Particles >38µm     ASTM D7647     >20     0      0       Particles >71µm     ASTM D7647     >4     0      0       Oil Cleanliness     ISO 4406 (c)     >20/18/15     ▲ 22/18/12      ▲ 22/18/11       Silt     scalar     *Visual     NONE     NONE     NONE     NONE     MONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NONE     NORML     NORE       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORM     NORML     NORML     NORML       Emulsified Water     scalar     *Visual     >0.1     NEG     NEG     NEG       Sodium     ppm     ASTM D5185m     3     3     1     1       Boron     ppm     ASTM D5185m     0     0     0     1       Magnaese     ppm					-		
Particles >71µmASTM D7647>400Oil CleanlinessISO 4406 (c) >20/18/15 $\checkmark$ 22/18/12 $\checkmark$ 22/18/11Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONE $\land$ HEAVYNONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLColorscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m331BoronppmASTM D5185m0000MolybdenumppmASTM D5185m000<1MagnesiumppmASTM D5185m3322CalciumppmASTM D5185m3322PhosphorusppmASTM D5185m111111241109ZincppmASTM D5185m4774947SulfurppmASTM D5185m19849741272							
Oil CleanlinessISO 4406 (c)>20/18/1522/18/1222/18/11Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLCdorscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m3331BoronppmASTM D5185m0000MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m332CalciumppmASTM D5185m11141172PhosphorusppmASTM D5185m117911241109ZincppmASTM D5185m4774947SulfurppmASTM D5185m19849741272					-		
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Debrisscalar*VisualNONENONEHEAVYNONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m331BoronppmASTM D5185m313282309BariumppmASTM D5185m000MolybdenumppmASTM D5185m00<1MagnesiumppmASTM D5185m11<1MagnesiumppmASTM D5185m141141172PhosphorusppmASTM D5185m117911241109ZincppmASTM D5185m4774947SulfurppmASTM D5185m19849741272		a a a la v					
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m331BoronppmASTM D5185m313282309BariumppmASTM D5185m000MolybdenumppmASTM D5185m00<1MagnesiumppmASTM D5185m111<1MagnesiumppmASTM D5185m3332CalciumppmASTM D5185m141141172PhosphorusppmASTM D5185m117911241109ZincppmASTM D5185m474947SulfurppmASTM D5185m119849741272					-		
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m331BoronppmASTM D5185m313282309BariumppmASTM D5185m000MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m11<1MagnesiumppmASTM D5185m332CalciumppmASTM D5185m141141172PhosphorusppmASTM D5185m117911241109ZincppmASTM D5185m474947SulfurppmASTM D5185m19849741272							
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m331BoronppmASTM D5185m313282309BariumppmASTM D5185m000MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m11<1MagnesiumppmASTM D5185m332CalciumppmASTM D5185m141141172PhosphorusppmASTM D5185m117911241109ZincppmASTM D5185m474947SulfurppmASTM D5185m19849741272							
Emulsified Water     scalar     *Visual     >0.1     NEG     NEG     NEG       Sodium     ppm     ASTM D5185m     3     3     1       Boron     ppm     ASTM D5185m     313     282     309       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     <1       Manganese     ppm     ASTM D5185m     1     1     <1       Magnesium     ppm     ASTM D5185m     3     3     2       Calcium     ppm     ASTM D5185m     141     141     172       Phosphorus     ppm     ASTM D5185m     1179     1124     1109       Zinc     ppm     ASTM D5185m     47     49     47       Sulfur     ppm     ASTM D5185m     1984     974     1272							
Sodium     ppm     ASTM D5185m     3     3     1       Boron     ppm     ASTM D5185m     313     282     309       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     <1       Manganese     ppm     ASTM D5185m     1     1     <1       Magnesium     ppm     ASTM D5185m     3     3     2       Calcium     ppm     ASTM D5185m     141     141     172       Phosphorus     ppm     ASTM D5185m     1179     1124     1109       Zinc     ppm     ASTM D5185m     47     49     47       Sulfur     ppm     ASTM D5185m     1984     974     1272					-		
Boron     ppm     ASTM D5185m     313     282     309       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     <1       Manganese     ppm     ASTM D5185m     1     1     <1       Magnesium     ppm     ASTM D5185m     3     3     2       Calcium     ppm     ASTM D5185m     141     141     172       Phosphorus     ppm     ASTM D5185m     1179     1124     1109       Zinc     ppm     ASTM D5185m     47     49     47       Sulfur     ppm     ASTM D5185m     1984     974     1272		Scalal	visuai	>0.1	NEG	NLG	NLG
Boron     ppm     ASTM D5185m     313     282     309       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     <1       Manganese     ppm     ASTM D5185m     1     1     <1       Magnesium     ppm     ASTM D5185m     3     3     2       Calcium     ppm     ASTM D5185m     141     141     172       Phosphorus     ppm     ASTM D5185m     1179     1124     1109       Zinc     ppm     ASTM D5185m     47     49     47       Sulfur     ppm     ASTM D5185m     1984     974     1272	Sodium	ppm	ASTM D5185m		3	3	1
Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     <1       Manganese     ppm     ASTM D5185m     1     1     <1       Magnesium     ppm     ASTM D5185m     3     3     2       Calcium     ppm     ASTM D5185m     141     141     172       Phosphorus     ppm     ASTM D5185m     1179     1124     1109       Zinc     ppm     ASTM D5185m     47     49     47       Sulfur     ppm     ASTM D5185m     1984     974     1272	Boron				313	282	309
Manganese     ppm     ASTM D5185m     1     1     <1	Barium	ppm	ASTM D5185m		0	0	0
Manganese     ppm     ASTM D5185m     1     1     <1	Molybdenum	ppm	ASTM D5185m		0	0	<1
Magnesium     ppm     ASTM D5185m     3     2       Calcium     ppm     ASTM D5185m     141     141     172       Phosphorus     ppm     ASTM D5185m     1179     1124     1109       Zinc     ppm     ASTM D5185m     47     49     47       Sulfur     ppm     ASTM D5185m     1984     974     1272	,		ASTM D5185m		1		<1
Calcium     ppm     ASTM D5185m     141     141     172       Phosphorus     ppm     ASTM D5185m     1179     1124     1109       Zinc     ppm     ASTM D5185m     47     49     47       Sulfur     ppm     ASTM D5185m     1984     974     1272	Magnesium		ASTM D5185m		3	3	2
Phosphorus     ppm     ASTM D5185m     1179     1124     1109       Zinc     ppm     ASTM D5185m     47     49     47       Sulfur     ppm     ASTM D5185m     1984     974     1272	-		ASTM D5185m			141	
Zinc     ppm     ASTM D5185m     47     49     47       Sulfur     ppm     ASTM D5185m     1984     974     1272	Phosphorus		ASTM D5185m		1179	1124	1109
Sulfur     ppm     ASTM D5185m     1984     974     1272						49	47
	Sulfur		ASTM D5185m		1984	974	1272
	Visc @ 40°C		ASTM D445	150	94.5	94.6	94.9



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Leigh Dennis - CARBUTNC Page 2 of 2

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