

**DEXRON® Basic Physical Properties and Bench Test Results
Report Form
Form 1
Version**

Formulation Code							
Formulation Code							
SID	SponsorCode	Modification	Blend	Method	Count	Lab ^A	Instrument ^B

^ALab compiling this data.

^BAll bench data transmissions should report "MULTI" as the instrument value in the Formulation Code.

Blended Sample Testing Information ^C			
Candidate Percentage		Other Percentage	
Other Fluid ID			

^CIf not a Blended Sample then report 100% Candidate Percentage, 0% Other Percentage, and "None" for Blend Fluid ID.

Test Identification	
Sponsor	
Sponsor In-House Number	
Lab In-House Number	
Alternate Code	

Test Validity Statement	
These tests have all been conducted in a valid manner – YES or NO	
Test Laboratory	
Signature	
Typed Name	
Title	

Comments

**DEXRON® Basic Physical Properties and Bench Test Results
Form 2 – Test Results**

Formulation Code	
Test Number	

Test Fluid Properties						
Test Method	Measured Item	Unit	Result ^A	Lab	Instrument	EOT Date
ASTM D1500	Color					
ASTM D5185	Aluminum (Al)	ppm				
ASTM D5185	Barium (Ba)	ppm				
ASTM D5185	Boron (B)	ppm				
ASTM D5185	Calcium (Ca)	ppm				
ASTM D5185	Chromium (Cr)	ppm				
ASTM D5185	Copper (Cu)	ppm				
ASTM D5185	Iron (Fe)	ppm				
ASTM D5185	Lead (Pb)	ppm				
ASTM D5185	Magnesium (Mg)	ppm				
ASTM D5185	Manganese (Mn)	ppm				
ASTM D5185	Molybdenum (Mo)	ppm				
ASTM D5185	Nickel (Ni)	ppm				
ASTM D5185	Phosphorus (P)	ppm				
ASTM D5185	Potassium (K)	ppm				
ASTM D5185	Silicon (Si)	ppm				
ASTM D5185	Silver (Ag)	ppm				
ASTM D5185	Sodium (Na)	ppm				
ASTM D5185	Sulfur (S)	ppm				
ASTM D5185	Tin (Sn)	ppm				
ASTM D5185	Titanium (Ti)	ppm				
ASTM D5185	Vanadium (V)	ppm				
ASTM D5185	Zinc (Zn)	ppm				
ASTM D6443	Chlorine (Cl)	ppm				
ASTM D4629	Nitrogen (N)	ppm				
ASTM D4927	Sulfur (S)	ppm				
ASTM D6922 ^B	Miscibility – Color Change					
ASTM D6922 ^B	Homogeneity – Separation					
ASTM D7603 ^B	Incompatibility	mass %				
ASTM D7603 ^B	Incompatibility	vol %				
ASTM D7603 ^B	Insoluble Residue	g				
ASTM D7603 ^B	Insoluble Residue	mL				
ASTM D4052	Density @ 15°C	g/mL				
ASTM D445	Kinematic Viscosity @ 40°C	cSt				
ASTM D445	Kinematic Viscosity @ 100°C	cSt				
ASTM D445	Kinematic Viscosity @ 150°C	cSt				
ASTM D445	Base Oil Blend KV @ 100°C	cSt				
ASTM D2270	Viscosity Index					
ASTM D92	Flash Point	°C				
ASTM D92	Fire Point	°C				
ASTM D5949	Pour Point	°C				
ASTM D2983	Brookfield Viscosity @ -10°C	cP				
ASTM D2983	Brookfield Viscosity @ -20°C	cP				
ASTM D2983	Brookfield Viscosity @ -30°C	cP				
ASTM D2983	Brookfield Viscosity @ -40°C	cP				
ASTM D5133	Scanning Brookfield Viscosity	cP				
ASTM D5133	Gelation Index					
ASTM D5133	Gelation Index Temperature	°C				
ASTM D5293	Cold Crank Simulation @ -30°C	cP				
ASTM D5293	Cold Crank Simulation @ -35°C	cP				
ASTM D5800	NOACK Evaporation 1h @ 200°C	%				
ASTM D5800	D5800 Procedure Used (A, B, C, D)					
ASTM D130	Copper Strip Corrosion, 3h @ 150°C					
ASTM D665	Corrosion, Procedure A	Pass-Fail				
ASTM D1748 ^B	Rust Protection @ 40°C, 50h	Pass-Fail				
ASTM D4683	High Temp., High Shear Viscosity	cP				

^AReport 0 for values below the measurement threshold of the instrument. Do not use the less than (“<”) symbol.

^BModified (ATF reference)

**DEXRON® Basic Physical Properties and Bench Test Results
Form 3 – Test Results (cont.)**

Formulation Code	
Test Number	

Test Fluid Water Content Measurements (Both Test Methods are Required)						
Test Method	Measured Item	Unit	Result ^A	Lab	Instrument	EOT Date
ASTM D6304	Water Content	mass %				
ASTM D6304	D6304 Procedure Used (A, B, C)					
ASTM D7546	Water Content	mass %				
ASTM D7546	D7546 Procedure Used (A, B)	A or B				

^AReport 0 for values below the measurement threshold of the instrument. Do not use the less than (“<”) symbol.

Cleanliness (Particle Count) ISO 4406					
	Number of particles equal to or larger than 4 µm(c)		Number of particles equal to or larger than 6 µm(c)		Number of particles equal to or larger than 14 µm(c)
Test Results ^A		/		/	
Note that an Automatic Particle Counter shall be used for this measurement. No other method listed in ISO 4406 is acceptable. All three measurements must be performed.					
Lab			Instrument		
EOT Date			Calibration Date		
Calibration Method ^B					

^AReport results using the ISO 4406 Code Scale, shown below.

^BCalibration Procedure Used, ISO 11171 or other.

ISO 4406 Results Code		
Reported Scale Value	Number of Particles per Milliliter	
	More Than	Up to and Including
>28 ^A	2,500,000	-
28	1,300,000	2,500,000
27	640,000	1,300,000
26	320,000	640,000
25	160,000	320,000
24	80,000	160,000
23	40,000	80,000
22	20,000	40,000
21	10,000	20,000
20	5,000	10,000
19	2,500	5,000
18	1,300	2,500
17	640	1,300
16	320	640
15	160	320
14	80	160
13	40	80
12	20	40
11	10	20
10	5	10
9	2.5	5
8	1.3	2.5
7	0.64	1.3
6	0.32	0.64
5	0.16	0.32
4	0.08	0.16
3	0.04	0.08
2	0.02	0.04
1	0.01	0.02
0	0.00	0.01
Do not use any non-numeric symbols to report test results.		
^A Report “29” for ISO 4406 Scale Value “>28”		