

Property	Test Method	English Units	DDC	Cummins	Texas Draft Spec ULSD	
<b>Fuel Description</b>			Diesel fuel specification table	Required diesel fuel specifications		TX ULSD Spec Compliant
<b>Cetane Number</b>	ASTM D 613	unitless	45	>42 above 0°F	40-50	NO
<b>Cetane Index</b>	ASTM D 4737	unitless	40	N/R	40-50	NO
<b>API Gravity</b>	ASTM D 287	degree API	34-39	30.0 - 41.9	32-37	NO
<b>Flash Point</b>	ASTM D93	°F (min)	125.6	N/R	130	YES
<b>Lubricity (SLBOCLE)</b>	ASTM D 6078	g (min)	2800	≥ 3100 g	3100g	YES
<b>Low temperature flow</b>	D2500 or D4539	°F (Min)	N/R	N/R	Local Requirement	
<b>Cloud Point</b>	D2500	°F (Min)	10°F below lowest ambient operating temp	10°F below lowest ambient operating temp	Local Requirement	
<b>Low temperature operability</b>	D2500 or D4539	°F (Min)	N/R	N/R	Local Requirement	
<b>Distillation (initial boiling point)</b>	ASTM D 86	°F (min)	375	"Distillation	340	NO
<b>Distillation (10% recovery)</b>	ASTM D 86	°F (Max)	430	curve must be smooth	460	NO
<b>Distillation (50% recovery)</b>	ASTM D 86	°F (Max)	510	and continuous"	540	NO
<b>Distillation (90% recovery)</b>	ASTM D 86	°F (Max)	625	90% @ 743°F	630	NO
<b>Distillation (final boiling point)</b>	ASTM D 86	°F (Max)	95 ° @ 671	(contingency fuel)	690	NO
<b>Kinematic Viscosity</b>	ASTM D 445	in <sup>2</sup> /s (range)	1.9-4.1	1.3 - 5.8	2.0-3.2	YES
<b>Sulfur</b>	ASTM D2622	ppm (max)	0.05	<.05%	<.0015	YES
<b>Aromatics</b>	ASTM D 1319	volume % (max)		N/R	N/R	

<b>Water and Sediment</b>	ASTM D 1796	volume % (max)	0.02%	<.05%	N/R	
<b>Sediment</b>	ASTM D2276 or 5452	mg/l (max)	N/R	N/R	N/R	
<b>Ash</b>	ASTM D 482	mass % (max)	0.01%	0.02%	N/R	
<b>Ramsbottom Carbon Residue</b>	ASTM D 524	mass % (max)	0.35	<0.35%	N/R	
<b>Accelerated Stability</b>	ASTM D2274	mg/100 ml. (max)	1.5	N/R	N/R	
<b>Copper Corrosion</b>	ASTM D 130	max	3b	≤ 2	N/R	
<b>Color</b>	ASTM D1500		N/R	N/R	N/R	
<b>Reference</b>			Source: Detroit Diesel bulletin 7SE270 9902, "Lubricating Oil, Fuel and Filters" (MDC #B-C5-1609)	Source: Cummins Service Bulletin 3379001-06 of June, 2002.	Carrie Reese NCTCOG creese@nctco g.dst.tx.us	