

**BUCKEYE PIPE LINE COMPANY, L.P.  
 LAUREL PIPE LINE COMPANY, L.P.  
 NORCO PIPE LINE COMPANY, LLC  
 WOOD RIVER PIPE LINES, LLC  
 SPECIFICATIONS FOR FUNGIBLE ULTRA LOW SULFUR DIESEL (ON ROAD)  
 GRADE 190**

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Gravity, API @ 60°F	D287, D4052	30		
Flash Point, °F(at Origin)	D93 or D56	130		1
Color, ASTM	D1500		2.5	
Viscosity, cst @ 104°F	D445	1.9	3.4	
Cloud Point, °F	D2500, D5771, D5772, D5773, D3117			2
Pour Point, °F	D5985, D5949, D5950, D97			3
Total Sulfur, ppm (at Origin)	D5453			
Receipt from Refinery			8.0	
Receipt from Connecting Pipeline			10.0	7,8
Corrosion, 3 hrs. @ 122°F	D130		1	
Oxidation Stability, mg/100 ml or	D2274		2.5	
Thermal Stability, 90 minutes				
150°F Pad rating	DuPont		7	
Carbon Residue, wt. % on 10% bottom	D524 or D4530		0.35	
Ash, wt. %	D482		0.01	
Sediment and Water, % by volume	D2709		0.05	
Cetane Number	D613	40		
or				
Cetane Index	D4737	40		
Cetane Index (as per EPA)	D976	40		
Distillation, °F	D86			
50% recovered		Report		
90% recovered		540	640	
End Point			690	
Haze Rating @ 77°F	D4176		2	
Procedure 2				
Color Visual		Undyed		4
Additives				5

**NOTES:**

- Test method D-56 may be used as an alternate to D-93 with the same limits. Test method D-93 is the referee method. Minimum flash at delivery is 125 °F.
- Cloud Point - September thru March  
 Cloud Point - April thru August  
 Maximum +15 °F / -9 °C  
 Maximum +20 °F / -7 °C
- Pour Point - September thru March  
 Pour Point - April thru August  
 Maximum 0 °F / -18 °C  
 Maximum +10 °F / -12 °C
- Product must exhibit no visible evidence of dye.
- Use of static dissipater additive or conductivity improver is prohibited.
- The use of lubricity improver additives is prohibited.
- This product should be designated under the EPA's Designate and Track reporting as On-Road fuel.
- Sulfur level at delivery will vary depending upon the origin and delivery location. The receipt specification is effective June 1, 2006. Any batches moving prior to that are required to meet a maximum sulfur level of 15.0 ppm.