

ConocoPhillips Company
 Lake Charles Refinery
 2200 Old Spanish Trail
 Westlake, LA 70669

Certificate of Analysis

LABORATORY TEST RESULTS ON SHIPMENT OF ULSD
 REF LOAD RACK

Batch ID : Local Rack
 Sample ID: 5159811

Tank Number : Tk 202
 Date : 10/05/2009

Name	Units	Results	Specs		Notes
			Min	Max	
Visible Dye - Present	Visible Dye	No			
D-4052A_Density - Avg API TMB	API Gravity	35.2	30.0		
D-86 Alm Dist - D-86 % Rec	Initial Boiling Pt. Rec	331.4			
	50 VOL% Recovery	548.7			
	90 VOL% Recovery	619.9	540	640	
	End PL Rec.	641.6		690	
D-93 PM Flash - PM Flash	Flash Pt	149.0	130		
D-7042 Visc - @ 40 C (104F)	Viscosity	3.2677	1.9	3.4	
D-5773 Cloud Pt - Phase Automatic	Cloud Pt	-13.7		15	
D-5949 Pour Pt - Phase Automatic	Pour Pt	-60.0		0	
Colonial Haze - TMB Avg @77F	Haze	1		2	
D-1796 BS&W - TMB Avg BS&W	Sediment & Water	Vol %	0.000		0.05
D-524 RCR - RCR-10%	Ramsbottom Carbon Residue	Vol %	<0.10		0.35
D-482 Ash - NVDI. @700 C	Ash	Vol %	<0.001		0.01
D-5453 Sulfur - Antek Sulfur	S (Sulfur)	ppm	0.54		8.0
D-130 CST - 3Hr@122 F	Copper Strip		1b		1b
D-8045 Color - ASTM Color	ASTM Color		L0.5		2.5
D-4737 Cet Ind - Cetane Indx	Cetane Index		49.1	40.0	
Thermal Stabill - 90 Min. Heat	Thermal Stability		2.0		7

ULSD Local Sales

Remarks:

Copies To:
 Frank Webb
 Gary Arnold
 LCR BLENDER
 LCR LMUTF Printer
 LCR Lab1 Lobby Printer
 LCR** BLENDER Printer
 Westlake Product Terminal

Approved:



Ellen M. Gilmore
 Laboratory Director
 Lake Charles Refinery

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