



**Marathon
Petroleum Company LLC**

**Certificate of Analysis
Louisiana Refining Division**

4663 West Airline Highway
Garyville, LA 70051
Phone No: (985) 535-2100
Fax No: (504) 535-7445
Date: 5/15/2012 8:08:13 AM

Product: No. 2 Diesel Fuel / Fuel Oil

Sample Description:

Tank: TK300-8
Batch Number: ULD120077
Vessel: ACHIEVEMENT-10 TR-093-12

Sample Date:

Date Analyzes Completed: 5/13/2012 12:34:16 AM
LIMS ID: 1793493

Test Method	Property	Result	Units	Lower Limit	Upper Limit
D4176	Workmanship	Passed		Passed	Passed
D4176	Visual Particulates	1			2
D6304	Moisture ⁴	36	ppm		
Physical Properties					
D4052	API Gravity	36.7	°API @ 60°F	30.0	
D445	Viscosity @ 104°F(40°C)	2.4	cSt	1.9	4.1
D93A	Flash Point	152	°F	140	
D130	Copper Strip Corrosion	1a			1b
TM0172-86	NACE Corrosion ⁵ - Note: This statistical result was dated 5/11/2012	A		B+	
D6468	Thermal Stability (90 minute aging) ³ - Note: This statistical result was dated 5/4/2012	99.5	%	80.0	
D6045	ASTM Color	1.0			2.5
D4176	Colonial Haze Rating	1			2
D2624	Conductivity ²	59	ps/m	25	250
	Conductivity Test Temperature	70	°F		
D482	Ash ³ - Note: This statistical result was dated 5/4/2012	<0.001	wt. %		0.01
Chemical Analyses					
D5453	Sulfur	5	ppm		11
D524	Carbon Residue, 10% Bottoms ³ - Note: This statistical result was dated 5/4/2012	0.07	wt. %		0.35
D976	Cetane Index (2 var)	51		40	
Distillation					
D86 Predicted	90%	622	°F	540	640
D86 Predicted	FBP	685	°F		690
Cold Flow Properties					
D577E	Cloud Point	15	°F		20
D594E	Pour Point	1	°F		10
Combustion Properties					
D4737A	Cetane Calc. (4 var) LSD	51.6		40.0	

- ¹ Lubricity specification is met through use of an additive that is injected at the terminal.
- ² Conductivity requirement is met by treating with an additive that is approved for use in jet fuel.
- ³ Property is determined on a statistical basis of 1 in every 10 samples.
- ⁴ KF water and visual particulate scale can be substituted for BS&W (ASTM D2709)
- ⁵ Property is determined on a statistical basis of 1 in every 5 samples.

Batch(es): ULD120077/5_8943_1
Reviewed By:
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COA Prepared By:
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Southern Gordon's
S-1812

Signed

Signed