

BUCKEYE PIPE LINE COMPANY, L.P.
BUCKEYE PIPE LINE TRANSPORTATION LLC
LAUREL PIPE LINE COMPANY, L.P.
NORCO PIPE LINE COMPANY, LLC
WOOD RIVER PIPE LINES LLC

SEGREGATED

PRODUCT GRADE SPECIFICATIONS
FOR
REFORMULATED GASOLINE

(PLEASE NOTE: Buckeye's ability to handle segregated grades may be limited by facilities.)

6.3 SEGREGATED PRODUCT GRADE SPECIFICATIONS

This section contains specifications for products which are handled on a segregated basis. A "segregated batch" is defined as a batch of petroleum product meeting Carrier's specifications which may not be commingled with other batches of petroleum product.

(PLEASE NOTE: Buckeye's ability to handle segregated grades may be limited by facilities.)

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BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2 —
86 OCTANE REFORMULATED GASOLINE - GRADE 401

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating				
Index, (R+M)/2		Report		
Oxygenates	D4815, GC-OF1D		Report	1, 2
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.7	2
RVP, psi	D5191		7.8	
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	2
Emissions Performance Reductions				
VOC Region 2, %	EPA	23.4 (CT, MA) 25.4 (LIS)		
Olefins, vol. %	D1319	25.0		
Sulfur, wt. %	D2622, D5453		.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2 —
87 OCTANE REFORMULATED GASOLINE - GRADE 402

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating		Report		
Index, (R+M)/2				
Oxygenates	D4815, GC-OF1D		Report	1, 2
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.7	2
RVP, psi	D5191		7.8	
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	2
Emissions Performance Reductions				
VOC Region 2, %	EPA	23.4 (CT, MA) 25.4 (LIS)		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %D2622, D5453			.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2 —
89 OCTANE REFORMULATED GASOLINE - GRADE 403

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating				
Index, (R+M)/2		Report		
Oxygenates	D4815, GC-OF1D		Report	1, 2
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.7	2
RVP, psi	D5191		7.8	
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	2
Emissions Performance Reductions				
VOC Region 2, %	EPA	23.4 (CT, MA) 25.4 (LIS)		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %D2622, D5453			.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
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NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2 —
92 OCTANE REFORMULATED GASOLINE - GRADE 404

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating				
Index, (R+M)/2		Report		
Oxygenates	D4815, GC-OF1D		Report	1, 2
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.7	2
RVP, psi	D5191		7.8	
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	3
Emissions Performance Reductions				
VOC Region 2, %	EPA	23.4 (CT, MA) 25.4 (LIS)		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %D2622, D5453			.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2 —
93 OCTANE REFORMULATED GASOLINE - GRADE 405

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating				
Index, (R+M)/2		Report		
Oxygenates	D4815, GC-OF1D		Report	1, 2
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.7	2
RVP, psi	D5191		7.8	
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	3
Emissions Performance Reductions				
VOC Region 2, %	EPA	23.4 (CT, MA) 25.4 (LIS)		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %D2622, D5453			.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2 —
94 OCTANE REFORMULATED GASOLINE - GRADE 406

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating				
Index, (R+M)/2		Report		
Oxygenates	D4815, GC-OF1D		Report	1, 2
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.7	2
RVP, psi	D5191		7.8	
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	2
Emissions Performance Reductions				
VOC Region 2, %	EPA	23.4 (CT, MA) 25.4 (LIS)		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %D2622, D5453			.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED 86 OCTANE
REFORMULATED GASOLINE - GRADE 411

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating Index, (R+M)/2		Report		
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.9	1, 2
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	2
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %D2622, D5453			.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index Refer to Table 2	D4814			6
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED 87 OCTANE
REFORMULATED GASOLINE - GRADE 412

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating				
Index, (R+M)/2		Report		
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.9	1, 2
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	2
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %D2622, D5453			.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators – Refer to Table 1				
Volatility and Distillation – Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED 89 OCTANE
REFORMULATED GASOLINE - GRADE 413

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating				
Index, (R+M)/2		Report		
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.9	1, 2
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %D2622, D5453			.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

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(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED 92 OCTANE
REFORMULATED GASOLINE - GRADE 414

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color		Undyed		
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating		Report		
Index, (R+M)/2		Report		
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.9	1, 2
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	2
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %D2622, D5453			.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED 93 OCTANE
REFORMULATED GASOLINE - GRADE 415

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating				
Index, (R+M)/2		Report		
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.9	1, 2
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	
Olefins, vol. %	D1319		25.0	
Sulfur, wt. % D2622, D5453			.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
NORCO PIPE LINE COMPANY, LLC
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED 94 OCTANE
REFORMULATED GASOLINE - GRADE 416

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color		Undyed		
Gravity, API @ 60°F	D287 or D1298	Report		
Octane Rating		Report		
Index, (R+M)/2		Report		
Oxygen, wt. %	D4815, GC-OF1D	1.5	2.9	1, 2
Benzene, vol. %	D3606, GCMS		1.30	
Aromatics, vol. %	GCMS, D5769		50.0	2
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	7
Odor		Nonoffensive		3
Port Fuel Injector and Intake Valve Detergent Additives				4
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				5
Driveability Index	D4814			6
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

NOTES:

No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.

1. Non-hydrocarbon blending components are to be reported on the certified laboratory report by type and percent (by volume). This product is required to contain blends of aliphatic ethers. The use of any other non-hydrocarbons as blending components is prohibited.
2. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
3. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
4. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
5. The use of MMT octane enhancing additive is prohibited.
6. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2.
7. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED REGULAR GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 432

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	80.0		
Index, (R+M)/2		83.7		
Index, (R+M)/2 when additized with 10% Denatured Fuel Ethanol		87.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3, 9
RVP, psi	D5191		Report	3
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Emissions Performance Reductions				
VOC Region 2, %	EPA	25.4		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED REGULAR GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 432**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 10% Denatured Fuel Ethanol.
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED PREMIUM GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 435

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	Report		
Index, (R+M)/2		91.3		
Index, (R+M)/2 when additized with 10% Denatured Fuel Ethanol		93.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3, 9
RVP, psi	D5191		Report	3
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Emissions Performance Reductions				
VOC Region 2, %	EPA	25.4		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED PREMIUM GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 435**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 10% Denatured Fuel Ethanol.
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED ULTRA GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 436

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	Report		
Index, (R+M)/2		92.8		
Index, (R+M)/2 when additized with 10% Denatured Fuel Ethanol		94.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3, 9
RVP, psi	D5191		Report	3
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Emissions Performance Reductions				
VOC Region 2, %	EPA	25.4		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED ULTRA GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 436**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 10% Denatured Fuel Ethanol.
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
REFORMULATED REGULAR GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 442

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	80.0		
Index, (R+M)/2		83.7		
Index, (R+M)/2 when additized with 10% Denatured Fuel Ethanol		87.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3, 9
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index (DI)	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
SEGREGATED REGULAR GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 442**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 10% Denatured Fuel Ethanol.
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
REFORMULATED PREMIUM GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 445

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	Report		
Index, (R+M)/2		91.3		
Index, (R+M)/2 when additized with 10% Denatured Fuel Ethanol		93.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3, 9
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index (DI)	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
REFORMULATED PREMIUM GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 445**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 10% Denatured Fuel Ethanol.
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
REFORMULATED ULTRA GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 446

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	Report		
Index, (R+M)/2		92.8		
Index, (R+M)/2 when additized with 10% Denatured Fuel Ethanol		94.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3, 9
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381			4
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor	Nonoffensive			5
Port Fuel Injector and Intake Valve Detergent Additives			6	
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index (DI)	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
REFORMULATED ULTRA GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
10% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 446**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 10% Denatured Fuel Ethanol.
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED REGULAR GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 632

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	80.0		
Index, (R+M)/2		85.5		
Index, (R+M)/2 when additized with 5.7% Denatured Fuel Ethanol		87.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3,9
RVP, psi	D5191		Report	3
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Emissions Performance Reductions				
VOC Region 2, %	EPA	25.4		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED REGULAR GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 632**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 5.7% Denatured Fuel Ethanol .
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED PREMIUM GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 635

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	Report		
Index, (R+M)/2		92.2		
Index, (R+M)/2 when additized with 5.7% Denatured Fuel Ethanol		93.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3,9
RVP, psi	D5191		Report	3
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Emissions Performance Reductions				
VOC Region 2, %	EPA	25.4		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED PREMIUM GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 635**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 5.7% Denatured Fuel Ethanol .
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED ULTRA GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 636

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	Report		
Index, (R+M)/2		93.3		
Index, (R+M)/2 when additized with 5.7% Denatured Fuel Ethanol		94.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3,9
RVP, psi	D5191		Report	3
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Emissions Performance Reductions				
VOC Region 2, %	EPA	25.4		
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED VOC CONTROLLED REGION 2
REFORMULATED ULTRA GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 636**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 5.7% Denatured Fuel Ethanol .
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
REFORMULATED REGULAR GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 642

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	80.0		
Index, (R+M)/2		85.5		
Index, (R+M)/2 when additized with 5.7% Denatured Fuel Ethanol		87.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3,9
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index (DI)	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
SEGREGATED REGULAR GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 642**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 5.7% Denatured Fuel Ethanol .
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
REFORMULATED PREMIUM GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 645

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	Report		
Index, (R+M)/2		92.2		
Index, (R+M)/2 when additized with 5.7% Denatured Fuel Ethanol		93.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3,9
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index (DI)	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
REFORMULATED PREMIUM GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 645**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 5.7% Denatured Fuel Ethanol .
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)
SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
REFORMULATED ULTRA GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 646

(Page 1 of 2)

<u>PRODUCT PROPERTY</u>	<u>ASTM TEST METHODS</u>	<u>TEST RESULTS</u>		<u>NOTE</u>
		<u>MINIMUM</u>	<u>MAXIMUM</u>	
Color			Undyed	
Gravity, API @ 60°F	D287, D1298, D4052	Report		
Corrosion, 3 hrs. @ 122°F	D130		1	1
Octane Rating				
Research Number	D2699, D2885	Report		
Motor Number	D2700, D2885	Report		
Index, (R+M)/2		93.3		
Index, (R+M)/2 when additized with 5.7% Denatured Fuel Ethanol		94.0		
Oxygen, wt. %	D5599, GC-OFID	Report		2,3,9
Benzene, vol. %	D3606		1.30	
Doctor Test	D4952		Negative	4
OR				
Mercaptan Sulfur, wt. %	D3227		0.002	
Lead Content, gms/gal	D3237 or equiv.		0.01	
Phosphorous, gms/gal	D3231		0.004	
Gum, mg/100ml (after washing)	D381		4	
Oxidation Stability, minutes	D525	240		
Aromatics, vol. %	GCMS, D5769		50.0	3
Olefins, vol. %	D1319		25.0	
Sulfur, wt. %	D2622, D5453		.0080	10
Odor		Nonoffensive		5
Port Fuel Injector and Intake Valve Detergent Additives				6
Corrosion Inhibitors, Gum Inhibitors and Metal Deactivators - Refer to Table 1				
Volatility and Distillation - Refer to Table 2				
E200, vol. %	D86	30.0	70.0	
E300, vol. %	D86	70.0	100.0	
MMT				7
Driveability Index (DI)	D4814			8
Refer to Table 2				
Silver Strip Corrosion	D4814		1	

Note: This RBOB may not be combined with any other RBOB except RBOB having the same requirement for oxygenate type and amount.

All parameters must be met after blending with denatured fuel ethanol unless noted.

BUCKEYE PIPE LINE COMPANY, L.P.
(CONNECTICUT, MASSACHUSETTS AND LONG ISLAND SYSTEM ONLY)

**SPECIFICATIONS FOR SEGREGATED NON-VOC CONTROLLED REGION 2
REFORMULATED ULTRA GASOLINE BLENDSTOCK (RBOB) FOR BLENDING WITH
5.7% DENATURED FUEL ETHANOL (92% PURITY) AS DEFINED IN ASTM D4806
GRADE 646**

(Page 2 of 2)

NOTES:

1. No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
2. This product may not contain oxygenates such as ethers or alcohols. The use of non-hydrocarbon blending components is prohibited. The de minimis limit of MTBE, ETBE and TAME allowed is 0.3 vol.% maximum for each compound at origin.
3. Refer to test methods published in 40 CFR Chapter 1, Part 80.46.
4. Mercaptan Sulfur waived if fuel is negative by Doctor test.
5. Any gasoline exhibiting an offensive odor and/ or poses a personal health hazard will not be accepted for shipment. Any gasoline containing more than 0.50 wt. % of dicyclopentadiene will not be accepted for shipment. The referee method will be based on a gas chromatograph test.
6. The use of Port Fuel Injector (PFI) and intake valve detergent additives is prohibited.
7. The use of MMT octane enhancing additive is prohibited.
8. The Driveability Index (DI) specification limits are applicable at the refinery or import facility as defined by 40 CFR Part 80.2 and will apply after blending with 5.7% Denatured Fuel Ethanol .
9. Oxygen content must meet a minimum of 1.5 wt. % and a maximum of 4.0 wt. % after blending with Denatured Fuel Ethanol.
10. This sulfur specification is effective December 15, 2005. Any batches moving prior to this are required to comply with the previous maximum of 0.0300 wt. %.