MAGELLAN MIDSTREAM PARTNERS, L.P.

X, TB, TC, Grades of Ultra Low Sulfur Diesel Fuel Specifications
Central and Southern Systems

Central System:

Product Property	Test Method	Origin Test Results Minimum	Maximum	Deliveries[1/]
Gravity, °API	D287	Report		
Color	D1500		2.5	3.0
Distillation	D86			
50% Recovered, °F		Report		
90% Recovered, °F		540	640	
OR				
Simulated Distillation	D2887			
50% Recovered, °F		Report		
90% Recovered, °F		572	672	
Copper Corrosion	D130		1	
Cetane				
(1) Cetane Number	D613	40.0		
OR (2) Cetane Index, procedure A	D4737	40.0		
Cetane Index [2/]	D976	40		
Flash Point, °F	D93	140		130
Stability				
(1)Thermal, % reflectance	D6468 (W)	75		
	D6468 (Y)	82		
Aging Period (Minutes)	D6468	90		
OR (2) Oxidation, mg/100 ml	D2274		2.5	
Carbon Residue on 10% Bottoms, %	D524		0.35	
Cloud Point, °F	D2500			
September-March			+15	
April-August			+20	
Pour Point, °F	D97			
September-March			0	
April-August			+10	
Viscosity, cSt at 104 °F	D445	1.9	4.1	
Ash, wt %	D482		0.01	
Haze Rating [3/]	D4176		2	3
NACE Corrosion	TM0172, D7548	B+		
Sulfur, ppm	D2622		11	

MAGELLAN MIDSTREAM PARTNERS, L.P.

X. TB. TC. Grade Ultra Low Sulfur Diesel Fuel Specifications
Central and Southern Systems

Southern System:

Product Property	Test Method	Origin Test Results Minimum	Maximum	Deliveries[1/]
Gravity, °API	D287	Report		
Color	D1500		3.0	3.0
Distillation	D86			
50% Recovered, °F		Report		
90% Recovered, °F		540	640	
OR				
Simulated Distillation	D2887			
50% Recovered, °F		Report		
90% Recovered, °F		572	672	
Copper Corrosion	D130		1	
Cetane				
(1) Cetane Number	D613	40.0		
OR (2) Cetane Index, procedure A	D4737	40.0		
Cetane Index [2/]	D976	40		
Flash Point, °F	D93	135		130
Stability				
(1)Thermal, % reflectance	D6468 (W)	75		
	D6468 (Y)	82		
Aging Period (Minutes)	D6468	90		
OR (2) Oxidation, mg/100 ml	D2274		2.5	
Carbon Residue on 10% Bottoms, %	D524		0.35	
Cloud Point, °F	D2500			
October-February			+15	
March-August			+28	
September			+20	
Pour Point, °F	D97	Report		
Viscosity, cSt at 104 °F	D445	1.9	4.1	
Ash, wt %	D482		0.01	
Haze Rating [3/]	D4176		2	3
NACE Corrosion	TM0172, D7548	B		
Sulfur, ppm	D2622		11	

Foot Notes:

1/ Delivered products meets all applicable requirements at time and place of delivery.

2/ ASTM D976 data is required for low sulfur fuel oils to demonstrate aromatics compliance per the EPA.

3/ Compliance with ASTM D4176 will be determined using Procedure 2 at 77 °F or tank temperature at the time of sampling, whichever is lower.

Additional Requirements:

Biodiesel: The use of any biodiesel fuel as a blending component is prohibited.

Dyes: X Grade shipments may not be dyed.