MAGELLAN MIDSTREAM PARTNERS, L.P.

D Grade High Cetane #2 Ultra Low Sulfur Diesel Fuel Specifications

Product Property[1/]	Method	Minimum	Maximum
Gravity, °API	D287	Report	
Color	D1500		2.0
Distillation [5/]	D86, D2887		
IBP, °F		340	
50% Recovered, °F		460	
90% Recovered, °F		540	640
Copper Corrosion	D130		1
Cetane			
Cetane Number	D613	48	
Or			
Cetane Index, A or B	D4737	48	
Cetane Index [2/]	D976	40	
Flash Point, °F	D93	140	
Stability			
Thermal, % reflectance (W or Y)	D6468 (W)	75	
	D6468 (Y)	82	
Aging Period (Minutes)	D6468	90	
Carbon Residue on 10% Bottoms, wt %	D524		0.20
Cloud Point, °F [3/]	D2500		
Pour Point, °F [3/]	D97		
Viscosity, cSt at 104 °F	D445	1.9	4.1
Ash, wt %	D482		0.01
Haze Rating [4/]	D4176		2
NACE Corrosion	TM0172, D7548	B+	
Sulfur, ppm	D2622		11

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Foot Notes:

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

2/ ASTM D976 result is required for ultra-low sulfur diesel fuel to demonstrate aromatics compliance per 40 CFR 1090.305.

3/

Month	Pour Point °F, max	Cloud Point °F, max
January	0	+14
February	0	+14
March	0	+14
April	+10	+20
May	+10	+20
June	+10	+20
July	+10	+20
August	0	+14
September	0	+14
October	0	+14
November	0	+14
December	0	+14

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

5/ ASTM D2887 Simulated Distillation results must be reported after D86 correlation.

Notes:

- D-grade complies with the ULSD standards of 40 CFR 1090.305
- D-grade is designated as ULSD in accordance with 40 CFR 1090.1015

Additional Requirements:

Biodiesel: The presence of biodiesel is prohibited.

Dyes: D-grade shipments may not be dyed.