

Petro Star North Pole Refinery

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PETRO STAR INC.
North Pole, AK 99705

On-Road Low Sulfur Motor Diesel #2 MVDF 500 ppm

Report Date:	25-Jul-08
Product:	MVDF 500 ppm, S500 & DF2
Crude Oil Source:	Alaska North Slope Crude
Crude Processing Technique:	Atmospheric Distillation

<u>Test</u>	<u>Units</u>	<u>Specification</u>	<u>Method</u>
Gravity @ 60 F, Min	API	Report	D1298
Density @ 15C, Max	g/cm ³	0.876	D1298
Flash Pt, Min.	Celsius	38 (100)	D93
Pour Pt, Max	Celsius	-26 (-15)	D5950
Distillation			
IBP	Celsius	Report	D86
10% Recovery	Celsius	Report	D86
20% Recovery	Celsius	Report	D86
50% Recovery	Celsius	Report	D86
90% Recovery	Celsius	Report	D86
Final Boiling Pt	Celsius	Report	D86
Recovery	Vol %	Report	D86
Residual	Vol %	Report	D86
Loss	Vol %	Report	D86
Viscosity @ 40 C, Min/Max	cSt	1.7 - 4.1	D445
*Ash, Max	Wt. %	.01	D482
*Carbon Residue on 10% Bottoms, Max	Wt. %	.35	D524
Btu Gross	Btu/Gallon	Report	D4868
Cetane Index, Procedure A, Min	Index	40	D4737
Cetane Index, Min	Index Number	40	D976
*Copper Strip Corrosion, Max	Code	3	D130
Total Sulfur, Max	Wt. %	0.05	D4294
*Water & Sediment, Max	Vol %	0.05	D2709
*Lubricity, HFRR @ 60 degree C, Max	Micron	520	D6079