

## APPENDIX D

## POSSIBLE CAUSES OF CONTAMINATION/DETERIORATION

TEST RESULTS	POSSIBLE CONTAMINANT	POSSIBLE DETERIORATION FACTOR
API Gravity is high	Commingling with a lighter product	
API Gravity is low	Commingling with a heavier product	Loss of light ends (weathering)
Visual color changes	Commingling with another product	Loss of color additives
Distillations, IBP + 10% is low	Commingling with a lighter product	
Distillation, 90%, FBP and residue is high	Commingling with a heavier product	
Distillation, IBP + 10% is high		Loss of light ends
Oxidation Stability is low		Weathering/oxidation
Reid Vapor Pressure is high	Commingling with a lighter product	
Reid Vapor Pressure is low		Loss of light ends (weathering)
Existent Gum is high and oily	Commingling with a heavier product	
Existent Gum is high and dry (does not specify "OILY")		The formation of excess gum through oxidation
Freezing Point fails	Commingling with a heavier product	
Flash Point is low	Commingling with a lighter product	
Fuel System Icing Inhibitor (FSII) is low		Contaminant with water (loss of additive)
Viscosity is low	Commingling with a lighter product	
Viscosity is high	Commingling with a heavier product	
Octane Number is low		Loss of additive (TELS)
Filtration time is high	Commingling with a heavier product, wa or sediment	

Table D-1. Possible causes of contamination/deterioration