



# CERTIFICATE OF ANALYSIS N° LPO-6567

**LOCATION** : Magellan - Galena Park, TX  
**PRODUCT** : CUTTER STOCK

**MOVEMENT** : Sampling  
**REF. NO.** :

TK :	Handblend Composite	Sampling	Sample N° :	37	10/04/18 17:20
D 4052-11	API Gravity @ 60°F	19.5 °API			
D 7169	Simulated Distillation by High Temp. GC				
	IBP	222 °F			
	5% Mass	347 °F			
	10% Mass	404 °F			
	15% Mass	441 °F			
	20% Mass	490 °F			
	30% Mass	587 °F			
	40% Mass	667 °F			
	50% Mass	722 °F			
	60% Mass	789 °F			
	70% Mass	882 °F			
	80% Mass	1052 °F			
	90% Mass	1316 °F			
	FBP	>1328 °F			
	Recovery	91.1 %			
D 4294	Sulfur	0.909 Mass %			
D 95	Water by Distillation	1.00 Vol. %			
D 473	Sediment by Extraction	0.24 Wt. %			
D 7900	Light Ends				
	Ethane	<0.01 Vol. %			
	Propane	<0.01 Vol. %			
	iso-Butane	0.02 Vol. %			
	n-Butane	0.02 Vol. %			
	2,2-Dimethylpropane (Neopentane)	0.03 Vol. %			
	iso-Pentane	0.02 Vol. %			
	n-Pentane	0.01 Vol. %			
	Cyclopentane	0.02 Vol. %			
	Total Light Ends (C2 - C5)	0.12 Vol. %			
IP 501	Iron	94 ppm			
IP 501	Nickel	27 ppm			
IP 501	Sodium	94 ppm			
IP 501	Vanadium	19 ppm			

All testing performed by Camin Cargo Control.

**\*\*\*Please note that method IP501 result for Iron was reported outside the higher scope of the method.\*\*\***

All gauges, temperatures and volumes were obtained in accordance to the latest API and ASTM procedures.

Data contained in this report is Confidential to the addressee and should not be disclosed to any other party without approval of client(s).

Carlos Martinez / Laboratory Technician