

Gage Products Company Certificate of Analysis / QC Results

Page: 1

Date: 02/27/12 at 10:48 AM

Customer PO # :

Packaged Product:	41067					
-	CSC 2012 Endurance Gasoline					
Property	Test Method	UOM	Specification	Value		
SPECIFIC GRAVITY @ 60F	ASTM D4052		REPORT	0.7596		
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	90.0		
DISTILLATION, 5%	ASTM D86	DEG F	REPORT	105.3		
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	120.2		
DISTILLATION, 20%	ASTM D86	DEG F	REPORT	146.3		
DISTILLATION, 30%	ASTM D86	DEG F	REPORT	159.4		
DISTILLATION, 40%	ASTM D86	DEG F	REPORT	164.3		
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	166.5		
DISTILLATION, 60%	ASTM D86	DEG F	REPORT	168.1		
DISTILLATION, 70%	ASTM D86	DEG F	REPORT	169.5		
DISTILLATION, 80%	ASTM D86	DEG F	REPORT	172.0		
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	271.6		
DISTILLATION, 95%	ASTM D86	DEG F	REPORT	310.3		
DISTILLATION, DP	ASTM D86	DEG F	REPORT	373.8		
RECOVERY	ASTM D86	VOL.%	REPORT	96.3		
RESIDUE	ASTM D86	VOL.%	REPORT	1.4		
LOSS	ASTM D86	VOL.%	REPORT	2.3		
RVP @ 100 DEG. F	ASTM D5191	PSI (KPA)	12.00 - 14.00(82.68 - 96.46)	12.44(85.71		
ETHANOL CONTENT	Gas Chromatography	VOL.%	34.00 - 36.00	35.30		
Lot # 3818100]	Made 02/07/12				
			ood until 08/06/12			



Gage Products Company Certificate of Analysis / QC Results

Page: 1

Date: 02/27/12 at 10:46 AM

Customer PO # :

Packaged Product:	41068			
	CSC 2012 Emissi	ons Fuel		
Property	Test Method	UOM	Specification	Value
SPECIFIC GRAVITY @ 60F	ASTM D4052		REPORT	0.7656
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	97.4
DISTILLATION, 5%	ASTM D86	DEG F	REPORT	132.4
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	143.9
DISTILLATION, 20%	ASTM D86	DEG F	REPORT	157.5
DISTILLATION, 30%	ASTM D86	DEG F	REPORT	162.7
DISTILLATION, 40%	ASTM D86	DEG F	REPORT	164.9
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	166.5
DISTILLATION, 60%	ASTM D86	DEG F	REPORT	167.6
DISTILLATION, 70%	ASTM D86	DEG F	REPORT	169.4
DISTILLATION, 80%	ASTM D86	DEG F	REPORT	226.1
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	263.5
DISTILLATION, 95%	ASTM D86	DEG F	REPORT	316.9
DISTILLATION, DP	ASTM D86	DEG F	REPORT	366.4
RECOVERY	ASTM D86	VOL.%	REPORT	97.3
RESIDUE	ASTM D86	VOL.%	REPORT	1.0
LOSS	ASTM D86	VOL.%	REPORT	1.9
RVP @ 100 DEG. F	ASTM D5191	PSI (KPA)	9.00 - 10.00(62.01 - 68.90)	9.60(66.14)
ETHANOL CONTENT	Gas Chromatography	VOL.%	34.00 - 36.00	34.98
CARBON CONTENT	ASTM D5291	WT.%	REPORT	74.15
HYDROGEN CONTENT	ASTM D5291	WT.%	REPORT	12.99
OXYGEN CONTENT	ASTM D5622	WT.%	REPORT	12.86
H/C RATIO	Calculated	MOLE/MOLE	REPORT	2.088
C/H RATIO	Calculated	WT/WT	REPORT	5.708
O/C RATIO	CALCULATED	MOLE/MOLE	REPORT	0.130
Lot # 3818400	0	Made 02/15/12		

In sealed unopened containers this product is good until 08/06/12

Approved By: Robert Putsett



Gage Products Company Certificate of Analysis / QC Results

Page: 1

Date: 02/27/12 at 10:47 AM

Customer PO # :

Packaged Product:	41069			
	CSC 2012 Diesel Fu	1		
Property	Test Method	UOM	Specification	Value
SPECIFIC GRAVITY @ 60F	ASTM D4052		REPORT	0.8537
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	388.2
DISTILLATION, 5%	ASTM D86	DEG F	REPORT	421.2
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	436.5
DISTILLATION, 20%	ASTM D86	DEG F	REPORT	457.3
DISTILLATION, 30%	ASTM D86	DEG F	REPORT	480.6
DISTILLATION, 40%	ASTM D86	DEG F	REPORT	504.1
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	520.7
DISTILLATION, 60%	ASTM D86	DEG F	REPORT	535.1
DISTILLATION, 70%	ASTM D86	DEG F	REPORT	553.6
DISTILLATION, 80%	ASTM D86	DEG F	REPORT	579.2
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	611.4
DISTILLATION, 95%	ASTM D86	DEG F	REPORT	628.7
DISTILLATION, DP	ASTM D86	DEG F	REPORT	638.2
RECOVERY	ASTM D86	VOL.8	REPORT	97.9
RESIDUE	ASTM D86	VOL.%	REPORT	1.4
LOSS	ASTM D86	VOL.%	REPORT	0.7
SME BIODIESEL CONTENT	Gas Chromatography	VOL.%	6.50 - 7.50	7.03
CARBON CONTENT	ASTM D5291	WT.%	REPORT	86.29
HYDROGEN CONTENT	ASTM D5291	WT.%	REPORT	13.11
OXYGEN CONTENT	ASTM D5622	WT.%	REPORT	0.60
H/C RATIO	Calculated	MOLE/MOLE	REPORT	1.81
C/H RATIO	Calculated	WT/WT	REPORT	6.58
	CALCULATED	MOLE/MOLE	REPORT	0.005

Approved By: Robert Putsett