



**Gage Products Company**  
**Certificate of Analysis / QC Results**

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Date: 03/08/11 at 6:02 PM

Customer PO # :

<b>Packaged Product:</b> 41038 CSC 2011 Emissions Gasoline				
Property	Test Method	UOM	Specification	Value
SPECIFIC GRAVITY @ 60F	ASTM D4052	REPORT	REPORT	0.7765
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	97.5
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	131.0
DISTILLATION, 20%	ASTM D86	DEG F	REPORT	148.5
DISTILLATION, 30%	ASTM D86	DEG F	REPORT	159.1
DISTILLATION, 40%	ASTM D86	DEG F	REPORT	164.8
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	168.1
DISTILLATION, 60%	ASTM D86	DEG F	REPORT	170.6
DISTILLATION, 70%	ASTM D86	DEG F	REPORT	173.3
DISTILLATION, 80%	ASTM D86	DEG F	REPORT	251.4
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	281.3
DISTILLATION, DP	ASTM D86	DEG F	REPORT	378.3
RECOVERY	ASTM D86	VOL. %	REPORT	97.7
RESIDUE	ASTM D86	VOL. %	REPORT	1.1
LOSS	ASTM D86	VOL. %	REPORT	1.2
RVP @ 100 DEG. F	ASTM D5191	PSI	9.00 - 10.00	9.46
ETHANOL CONTENT	Gas Chromatography	VOL. %	27.00 - 29.00	28.90
CARBON CONTENT	ASTM D5291	WT. %	REPORT	77.61
HYDROGEN CONTENT	ASTM D5291	WT. %	REPORT	12.52
H/C RATIO	Calculated	MOLE/MOLE	REPORT	1.922
OXYGEN CONTENT	ASTM D5622	WT. %	REPORT	9.87
C/H RATIO	Calculated	WT/WT	REPORT	6.199
O/C RATIO	CALCULATED	MOLE/MOLE	REPORT	0.095
<b>Lot #</b> 2495200 <b>Made</b> 02/17/11 In sealed unopened containers this product is good until 08/08/11  <b>Approved By:</b> <u>Robert Butz</u>				



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Date: 03/08/11 at 6:00 PM

Customer PO # :

<b>Packaged Product:</b> 41037 CSC 2011 Endurance Gasoline				
Property	Test Method	UOM	Specification	Value
SPECIFIC GRAVITY @ 60F	ASTM D4052	REPORT	REPORT	0.7427
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	86.4
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	118.2
DISTILLATION, 20%	ASTM D86	DEG F	REPORT	142.3
DISTILLATION, 30%	ASTM D86	DEG F	REPORT	156.2
DISTILLATION, 40%	ASTM D86	DEG F	REPORT	162.5
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	165.4
DISTILLATION, 60%	ASTM D86	DEG F	REPORT	167.2
DISTILLATION, 70%	ASTM D86	DEG F	REPORT	169.3
DISTILLATION, 80%	ASTM D86	DEG F	REPORT	255.0
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	301.3
DISTILLATION, DP	ASTM D86	DEG F	REPORT	389.5
RECOVERY	ASTM D86	VOL. %	REPORT	96.9
RESIDUE	ASTM D86	VOL. %	REPORT	1.2
LOSS	ASTM D86	VOL. %	REPORT	1.9
RVP @ 100 DEG. F	ASTM D5191	PSI	12.00 - 14.00	13.13
ETHANOL CONTENT	Gas Chromatography	VOL. %	27.00 - 29.00	29.00
<b>Lot #</b> 2482200 <b>Made</b> 02/10/11 In sealed unopened containers this product is good until 08/03/11  <b>Approved By:</b> <u>Robert Putz</u>				



**Gage Products Company**  
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Date: 03/08/11 at 6:04 PM

Customer PO # :

<b>Packaged Product:</b> 41039 CSC 2011 Diesel Fuel				
Property	Test Method	UOM	Specification	Value
SPECIFIC GRAVITY @ 60F	ASTM D4052	REPORT	REPORT	0.8535
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	380.5
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	415.9
DISTILLATION, 20%	ASTM D86	DEG F	REPORT	455.2
DISTILLATION, 30%	ASTM D86	DEG F	REPORT	481.5
DISTILLATION, 40%	ASTM D86	DEG F	REPORT	503.8
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	521.8
DISTILLATION, 60%	ASTM D86	DEG F	REPORT	535.1
DISTILLATION, 70%	ASTM D86	DEG F	REPORT	553.1
DISTILLATION, 80%	ASTM D86	DEG F	REPORT	577.9
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	609.8
DISTILLATION, DP	ASTM D86	DEG F	REPORT	639.5
RECOVERY	ASTM D86	VOL. %	REPORT	98.0
RESIDUE	ASTM D86	VOL. %	REPORT	1.2
LOSS	ASTM D86	VOL. %	REPORT	0.8
SME BIODIESEL CONTENT	Gas Chromatography	VOL. %	4.50 - 5.50	5.36
CARBON CONTENT	ASTM D5291	WT. %	REPORT	87.08
HYDROGEN CONTENT	ASTM D5291	WT. %	REPORT	12.37
H/C RATIO	Calculated	MOLE/MOLE	REPORT	1.693
OXYGEN CONTENT	ASTM D5622	WT. %	REPORT	0.55
C/H RATIO	Calculated	WT/WT	REPORT	7.04
O/C RATIO	CALCULATED	MOLE/MOLE	REPORT	0.005
<b>Lot #</b> 2482800 <b>Made</b> 02/17/11 In sealed unopened containers this product is good until 08/03/11  <b>Approved By:</b> <u>Robert Pitzelt</u>				