

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

Page: 1

Date: 02/26/15 at 2:11 PM

Customer PO #:

Packaged Product:	41276					
	CSC 2015 Endurance Gasoline					
Property	<b>Test Method</b>	UOM	Specification	Value		
SPECIFIC GRAVITY @ 60F	ASTM D4052		REPORT	0.7368		
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	80.2		
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	97.3		
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	203.4		
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	302.2		
DISTILLATION, DP	ASTM D86	DEG F	REPORT	393.4		
RECOVERY	ASTM D86	VOL.%	REPORT	94.4		
RESIDUE	ASTM D86	VOL.%	REPORT	1.1		
LOSS	ASTM D86	VOL.%	REPORT	4.5		
ISOBUTANOL CONTENT	ASTM D4815	VOL.%	15.5 - 16.5	15.8		
RVP @ 100 DEG. F	ASTM D5191	PSI (KPA)	13.00 - 14.00(89.57 - 96.46)	14.23(98.04)		
CARBON CONTENT	ASTM D5291	WT.%	REPORT	82.53		
HYDROGEN CONTENT	ASTM D5291	WT.%	REPORT	13.74		
OXYGEN CONTENT	ASTM D5622	WT.%	REPORT	3.73		
H/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	1.984		
C/H RATIO	GAGE-CALCULATED	WT/WT	REPORT	6.006		
O/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	0.034		
<b>Lot #</b> 7786700		<b>Made</b> 02/06/15				

In sealed unopened containers this product is good until 01/29/16

Approved By: Robert Putsett



## Gage Products Company Certificate of Analysis / QC Results

Page: 1

Date: 02/26/15 at 2:12 PM

## Customer PO #:

Packaged Product:	41277						
_	CSC 2015 Emissions Gasoline						
Property	<b>Test Method</b>	UOM	Specification	Value			
SPECIFIC GRAVITY @ 60F	ASTM D4052		REPORT	0.7545			
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	94.1			
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	130.3			
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	208.0			
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	311.0			
DISTILLATION, DP	ASTM D86	DEG F	REPORT	397.9			
RECOVERY	ASTM D86	VOL.%	REPORT	97.3			
RESIDUE	ASTM D86	VOL.%	REPORT	1.0			
LOSS	ASTM D86	VOL.%	REPORT	1.7			
ISOBUTANOL CONTENT	ASTM D4815	VOL.%	15.5 - 16.5	15.7			
RVP @ 100 DEG. F	ASTM D5191	PSI (KPA)	9.00 - 10.00(62.01 - 68.90)	9.25(63.73)			
CARBON CONTENT	ASTM D5291	WT.%	REPORT	82.99			
HYDROGEN CONTENT	ASTM D5291	WT.%	REPORT	13.40			
OXYGEN CONTENT	ASTM D5622	WT.%	REPORT	3.61			
H/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	1.924			
C/H RATIO	GAGE-CALCULATED	WT/WT	REPORT	6.194			
O/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	0.033			

**Lot #** 7787000 **Made** 02/10/15

In sealed unopened containers this product is good until 01/29/16

Approved By: Robert Patett



## Gage Products Company Certificate of Analysis / QC Results

Page: 1

Date: 02/26/15 at 2:13 PM

Customer PO #:

Packaged Product: 41278

CSC 2015 Diesel Fuel

Property	<b>Test Method</b>	UOM	Specification	Value
SPECIFIC GRAVITY @ 60F	ASTM D4052		REPORT	0.8527
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	379.6
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	430.2
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	522.0
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	610.7
DISTILLATION, DP	ASTM D86	DEG F	REPORT	639.1
RECOVERY	ASTM D86	VOL.%	REPORT	97.9
RESIDUE	ASTM D86	VOL.%	REPORT	1.3
LOSS	ASTM D86	VOL.%	REPORT	0.8
SME BIODIESEL CONTENT	GAGE-GC2	VOL.%	5.80 - 6.20	6.06
CARBON CONTENT	ASTM D5291	WT.%	REPORT	86.51
HYDROGEN CONTENT	ASTM D5291	WT.%	REPORT	12.80
OXYGEN CONTENT	ASTM D5622	WT.%	REPORT	0.69
H/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	1.764
C/H RATIO	GAGE-CALCULATED	WT/WT	REPORT	6.756
O/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	0.006

**Lot #** 7787300

**Made** 02/06/15

In sealed unopened containers this product is good until 01/29/16

Approved By: Robert Patett