GAGE PRODUCTS CO.
821 WANDA AVENUE
FERNDALE, MI 48220
(248) 541-3824

Gage Products Company
Certificate of Analysis / QC Results

Date: 03/01/17 at 2:32 PM

Customer PO # :

Packaged Product: 42313
CSC 2017 Endurance Gasoline

Property	Test Method	UOM	Specification	Value
SPECIFIC GRAVITY @ 60.0 F	ASTM D4052		REPORT	0.7646
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	89.2
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	123.6
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	170.4
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	175.1
DISTILLATION, DP	ASTM D86	DEG F	REPORT	347.9
RECOVERY	ASTM D86	VOL.%	REPORT	96.1
RESIDUE	ASTM D86	VOL.%	REPORT	2.3
LOSS	ASTM D86	VOL.%	REPORT	1.6
ETHANOL CONTENT	GAGE-GC2	VOL.%	58.00 - 62.00	58.23
RVP @ 100 F	ASTM D5191	PSI (KPA)	13.00 - 15.00(89.57 - 103.35)	14.45(99.56)
CARBON CONTENT	ASTM D5291	WT.%	REPORT	65.89
HYDROGEN CONTENT	ASTM D5291	WT.%	REPORT	13.12
OXYGEN CONTENT	ASTM D5622	WT.%	REPORT	20.99
H/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	2.373
C/H RATIO	GAGE-CALCULATED	WT/WT	REPORT	5.021
O/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	0.239

Lot # 10624700 **Made** 02/15/17

In sealed unopened containers this product is good until 02/15/19

Approved By: Robert Putzitt

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821 WANDA AVENUE
FERNDALE, MI 48220
(248) 541-3824

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Date: 03/01/17 at 2:33 PM

Customer PO # :

Packaged Product: 42314
CSC 2017 Emissions Gasoline

Property	Test Method	UOM	Specification	Value
SPECIFIC GRAVITY @ 60.0 F	ASTM D4052		REPORT	0.7718
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	96.4
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	143.2
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	170.2
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	174.4
DISTILLATION, DP	ASTM D86	DEG F	REPORT	366.1
RECOVERY	ASTM D86	VOL.%	REPORT	97.6
RESIDUE	ASTM D86	VOL.%	REPORT	0.9
LOSS	ASTM D86	VOL.%	REPORT	1.5
ETHANOL CONTENT	GAGE-GC2	VOL.%	58.00 - 62.00	59.02
RVP @ 100 F	ASTM D5191	PSI (KPA)	8.50 - 10.00(58.57 - 68.90)	9.41(64.83)
CARBON CONTENT	ASTM D5291	WT.%	REPORT	65.80
HYDROGEN CONTENT	ASTM D5291	WT.%	REPORT	13.13
OXYGEN CONTENT	ASTM D5622	WT.%	REPORT	21.07
H/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	2.38
C/H RATIO	GAGE-CALCULATED	WT/WT	REPORT	5.01
O/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	0.24

Lot # 10624400 **Made** 02/14/17

In sealed unopened containers this product is good until 02/14/19

Approved By: Robert Putzitt

GAGE PRODUCTS CO.
821 WANDA AVENUE
FERNDALE, MI 48220
(248) 541-3824

Gage Products Company
Certificate of Analysis / QC Results

Date: 03/01/17 at 2:35 PM

Customer PO # :

Packaged Product: 42315
CSC 2017 Diesel Fuel

Property	Test Method	UOM	Specification	Value
SPECIFIC GRAVITY @ 60.0 F	ASTM D4052		REPORT	0.8566
DISTILLATION, IBP	ASTM D86	DEG F	REPORT	373.5
DISTILLATION, 10%	ASTM D86	DEG F	REPORT	433.8
DISTILLATION, 50%	ASTM D86	DEG F	REPORT	532.5
DISTILLATION, 90%	ASTM D86	DEG F	REPORT	620.4
DISTILLATION, DP	ASTM D86	DEG F	REPORT	642.2
RECOVERY	ASTM D86	VOL.%	REPORT	97.9
RESIDUE	ASTM D86	VOL.%	REPORT	1.4
LOSS	ASTM D86	VOL.%	REPORT	0.7
SME BIODIESEL CONTENT	GAGE-GC2	VOL.%	14.00 - 16.00	14.61
CARBON CONTENT	ASTM D5291	WT.%	REPORT	84.023
HYDROGEN CONTENT	ASTM D5291	WT.%	REPORT	12.657
H/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	1.795
C/H RATIO	GAGE-CALCULATED	WT/WT	REPORT	6.639
O/C RATIO	GAGE-CALCULATED	MOLE/MOLE	REPORT	0.030
OXYGEN CONTENT	ASTM D4815	WT.%	REPORT	1.65

Lot # 10624100 **Made** 02/13/17

In sealed unopened containers this product is good until 02/13/19

Approved By: Robert Putzulu