



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
2012 MODEL YEAR  
CERTIFICATE OF CONFORMITY  
WITH THE CLEAN AIR ACT OF 1990

OFFICE OF TRANSPORTATION  
AND AIR QUALITY  
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **IMPCO Technologies, Inc.**  
(Alternative Fuel Converter)

Certificate Number: **CZ9XT05.3GDC-009**

Effective Date:  
12/14/2011

Expiration Date:  
12/31/2012

Byron J. Bunker, Acting Division Director  
Compliance Division

Issue Date:  
12/14/2011

Revision Date:  
N/A

Test Group Name: CZ9XT05.3GDC

Evaporative/Refueling Family Name: CZ9XR0176GDC

Applicable Exhaust Emission Standards: Federal Tier 2 Bin 5, ULEV

Applicable Evaporative/Refueling Standards: Federal LEV-II Evap

Engine Displacement: 5.3, 4.8 Liters

Exhaust Emission Test Fuel Type: LPG

Full Useful Life Miles: Exhaust Emissions: 120,000 miles

Full Useful Life Miles: Evaporative/Refueling Emissions: 120,000 miles

Models Covered: IA Bi-Fuel CNG - GM: CHEVROLET C15 SILVERADO 2WD, CHEVROLET C15 SILVERADO 2WD XFE, CHEVROLET C1500 TAHOE 2WD, CHEVROLET K15 SILVERADO 4WD, CHEVROLET K1500 TAHOE 4WD, GMC C15 SIERRA 2WD, GMC C15 SIERRA 2WD XFE, GMC C1500 YUKON 2WD, GMC K15 SIERRA 4WD, GMC K1500 YUKON 4WD

Vehicle models covered by this certificate were originally produced by General Motors in model year 2012 to operate on gasoline or E85 and have been modified by the above named manufacturer to operate on gasoline/E85 or LPG.

General Motors test group CGMXT05.3373, evap family CGMXR0176820

Pursuant to section 206 of the Clean Air Act (42 U.S.C.7525) and 40 CFR Parts 85, 86, 88, and 600 as applicable, this certificate of conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Parts 85, 86, 88, and 600 as applicable) and which represent the new motor vehicle models listed above by test group and evaporative/refueling emission family, more fully described in the application of the above named manufacturer. Vehicles covered by this certificate have demonstrated compliance with the applicable emission standards as more fully described in the manufacturer's application. This certificate covers the above models, which are designed to meet the applicable emission standards specified in 40 CFR Parts 85, 86, 88, and 600 as applicable at both high and low altitude as applicable.

EPA is issuing this certificate subject to the conditions and provisions of 40 CFR 86.1848(c).

**REDUCED FEE CERTIFICATE:** EPA is issuing this certificate under the reduced fee provisions of 40 CFR 1027.120. This certificate covers up to 30 vehicles. A revised certificate and an additional fee payment are required if the number of vehicles covered by this certificate exceeds 30 vehicles.

This certificate covers only those new motor vehicles or vehicle engines which conform, in all material respects, to the design specifications that apply to those vehicles or engines described in the documentation required by 40 CFR Parts 85, 86, 88, and 600 as applicable and which are produced during the 2012 model year production period stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 85, 86, 88, and 600 as applicable. The manufacturer shall obtain the approval of the California Air Resources Board (in the form of an executive order issued by the California Air Resources Board) prior to introducing any vehicle covered by this certificate into commerce 1) in the State of California, or 2) in a State that, under the authority of Section 177 of the Clean Air Act, has adopted and placed into effect the California standards to which this test group has been certified.

Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded fuel. This certificate is issued subject to the conditions specified in 40 CFR 80.24. Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel, otherwise covered by this certificate, which are driven outside the United States, Canada, Mexico, Japan, Australia, Taiwan and the Bahama Islands will be presumed to have been operated on leaded fuel resulting in deactivation of the catalysts. If these vehicles are imported or offered for importation without retrofit of the catalyst, they will be considered not to be within the coverage of this certificate unless included in a catalyst control program operated by manufacturer or a United States Government Agency and approved by the Administrator.

In the case of completely assembled vehicles, this certificate of conformity covers only vehicles which are completely manufactured prior to January 1, 2013. Normally incompletely assembled vehicles (such as cab chassis) may be completed after this date, provided that the basic manufacturing (including installation of the emission control system) was completed prior to January 1, 2013. This certificate does not cover vehicles sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



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ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **IMPCO Technologies, Inc.**  
(Alternative Fuel Converter)

Certificate Number: **CZ9XT05.3GDC-010**

Effective Date:  
12/14/2011

Expiration Date:  
12/31/2012

**Byron J. Bunker, Acting Division Director**  
/Compliance Division

Issue Date:  
12/14/2011

Revision Date:  
N/A

**Test Group Name:** CZ9XT05.3GDC

**Evaporative/Refueling Family Name:** CZ9XR0223G1C

**Applicable Exhaust Emission Standards:** Federal Tier 2 Bin 5, ULEV

**Applicable Evaporative/Refueling Standards:** Federal LEV-II Evap

**Engine Displacement:** 5.3, 4.8 Liters

**Exhaust Emission Test Fuel Type:** LPG

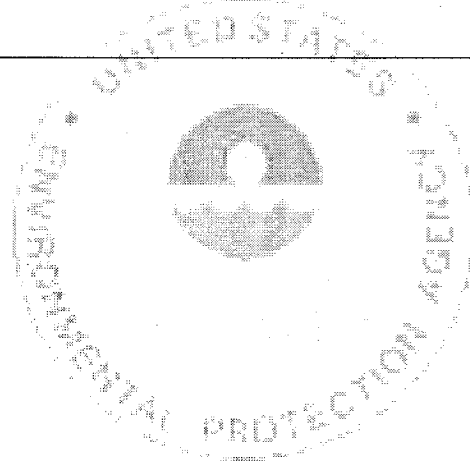
**Full Useful Life Miles: Exhaust Emissions:** 120,000 miles

**Full Useful Life Miles: Evaporative/Refueling Emissions:** 120,000 miles

**Models Covered:** IA Bi-Fuel CNG - GM: CHEVROLET C15 SILVERADO 2WD, CHEVROLET C1500 AVALANCHE 2WD, CHEVROLET C1500 SUBURBAN 2WD, CHEVROLET K15 SILVERADO 4WD, CHEVROLET K1500 AVALANCHE 4WD, CHEVROLET K1500 SUBURBAN 4WD, GMC C15 SIERRA 2WD, GMC C1500 YUKON XL 2WD, GMC K15 SIERRA 4WD, GMC K1500 YUKON XL 4WD

Vehicle models covered by this certificate were originally produced by General Motors in model year 2012 to operate on gasoline or E85 and have been modified by the above named manufacturer to operate on gasoline/E85 or LPG.

General Motors test group CGMXT05.3373, evap family CGMXR0223840





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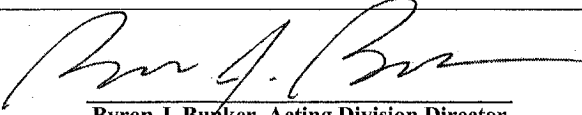
OFFICE OF TRANSPORTATION  
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ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **IMPCO Technologies, Inc.**  
(Alternative Fuel Converter)

Certificate Number: **CZ9XT05.3GDC-010**

Effective Date:  
12/14/2011

Expiration Date:  
12/31/2012

  
Byron J. Bunker, Acting Division Director  
Compliance Division

Issue Date:  
12/14/2011

Revision Date:  
N/A

Pursuant to section 206 of the Clean Air Act (42 U.S.C.7525) and 40 CFR Parts 85, 86, 88, and 600 as applicable, this certificate of conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Parts 85, 86, 88, and 600 as applicable) and which represent the new motor vehicle models listed above by test group and evaporative/refueling emission family, more fully described in the application of the above named manufacturer. Vehicles covered by this certificate have demonstrated compliance with the applicable emission standards as more fully described in the manufacturer's application. This certificate covers the above models, which are designed to meet the applicable emission standards specified in 40 CFR Parts 85, 86, 88, and 600 as applicable at both high and low altitude as applicable.

EPA is issuing this certificate subject to the conditions and provisions of 40 CFR 86.1848(c).

**REDUCED FEE CERTIFICATE:** EPA is issuing this certificate under the reduced fee provisions of 40 CFR 1027.120. This certificate covers up to 30 vehicles. A revised certificate and an additional fee payment are required if the number of vehicles covered by this certificate exceeds 30 vehicles.

This certificate covers only those new motor vehicles or vehicle engines which conform, in all material respects, to the design specifications that apply to those vehicles or engines described in the documentation required by 40 CFR Parts 85, 86, 88, and 600 as applicable and which are produced during the 2012 model year production period stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 85, 86, 88, and 600 as applicable. The manufacturer shall obtain the approval of the California Air Resources Board (in the form of an executive order issued by the California Air Resources Board) prior to introducing any vehicle covered by this certificate into commerce: 1) in the State of California, or 2) in a State that, under the authority of Section 177 of the Clean Air Act, has adopted and placed into effect the California standards to which this test group has been certified.

Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded fuel. This certificate is issued subject to the conditions specified in 40 CFR 80.24. Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel, otherwise covered by this certificate, which are driven outside the United States, Canada, Mexico, Japan, Australia, Taiwan and the Bahama Islands will be presumed to have been operated on leaded fuel resulting in deactivation of the catalysts. If these vehicles are imported or offered for importation without retrofit of the catalyst, they will be considered not to be within the coverage of this certificate unless included in a catalyst control program operated by manufacturer or a United States Government Agency and approved by the Administrator.

In the case of completely assembled vehicles, this certificate of conformity covers only vehicles which are completely manufactured prior to January 1, 2013. Normally incompletely assembled vehicles (such as cab chassis) may be completed after this date, provided that the basic manufacturing (including installation of the emission control system) was completed prior to January 1, 2013. This certificate does not cover vehicles sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



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**OFFICE OF TRANSPORTATION  
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ANN ARBOR, MICHIGAN 48105**

**Certificate Issued To: IMPCO Technologies, Inc.**  
(Alternative Fuel Converter)

**Certificate Number: CZ9XT05.3GFC-007**

**Effective Date:**  
12/14/2011

**Expiration Date:**  
12/31/2012

**Byron J. Bunker, Acting Division Director**  
Compliance Division

**Issue Date:**  
12/14/2011

**Revision Date:**  
N/A

**Test Group Name: CZ9XT05.3GFC**

**Evaporative/Refueling Family Name: CZ9XR0176GFC**

**Applicable Exhaust Emission Standards: Federal Tier 2 Bin 5, ULEV**

**Applicable Evaporative/Refueling Standards: Federal LEV-II Evap**

**Engine Displacement: 5.3, 4.8 Liters**

**Exhaust Emission Test Fuel Type: CNG**

**Full Useful Life Miles: Exhaust Emissions: 120,000 miles**

**Full Useful Life Miles: Evaporative/Refueling Emissions: 120,000 miles**

**Models Covered: IA Bi-Fuel CNG - GM: CHEVROLET C15 SILVERADO 2WD, CHEVROLET C15 SILVERADO 2WD XFE, CHEVROLET C1500 TAHOE 2WD, CHEVROLET K15 SILVERADO 4WD, CHEVROLET K1500 TAHOE 4WD, GMC C15 SIERRA 2WD, GMC C15 SIERRA 2WD XFE, GMC C1500 YUKON 2WD, GMC K15 SIERRA 4WD, GMC K1500 YUKON 4WD**

Vehicle models covered by this certificate were originally produced by General Motors in model year 2012 to operate on gasoline or E85 and have been modified by the above named manufacturer to operate on gasoline/E85 or CNG.

General Motors test group CGMXT05.3373, evap family CGMXR0176820

Pursuant to section 206 of the Clean Air Act (42 U.S.C.7525) and 40 CFR Parts 85, 86, 88, and 600 as applicable, this certificate of conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Parts 85, 86, 88, and 600 as applicable) and which represent the new motor vehicle models listed above by test group and evaporative/refueling emission family, more fully described in the application of the above named manufacturer. Vehicles covered by this certificate have demonstrated compliance with the applicable emission standards as more fully described in the manufacturer's application. This certificate covers the above models, which are designed to meet the applicable emission standards specified in 40 CFR Parts 85, 86, 88, and 600 as applicable at both high and low altitude as applicable.

EPA is issuing this certificate subject to the conditions and provisions of 40 CFR 86.1848(c).

**REDUCED FEE CERTIFICATE: EPA is issuing this certificate under the reduced fee provisions of 40 CFR 1027.120. This certificate covers up to 30 vehicles. A revised certificate and an additional fee payment are required if the number of vehicles covered by this certificate exceeds 30 vehicles.**

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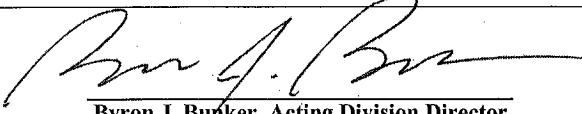
OFFICE OF TRANSPORTATION  
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ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **IMPCO Technologies, Inc.**  
(Alternative Fuel Converter)

Certificate Number: **CZ9XT05.3GFC-008**

Effective Date:  
12/14/2011

Expiration Date:  
12/31/2012

  
Byron J. Bunker, Acting Division Director  
Compliance Division

Issue Date:  
12/14/2011

Revision Date:  
N/A

**Test Group Name:** CZ9XT05.3GFC

**Evaporative/Refueling Family Name:** CZ9XR0223G2C

**Applicable Exhaust Emission Standards:** Federal Tier 2 Bin 5, ULEV

**Applicable Evaporative/Refueling Standards:** Federal LEV-II Evap

**Engine Displacement:** 5.3, 4.8 Liters

**Exhaust Emission Test Fuel Type:** CNG

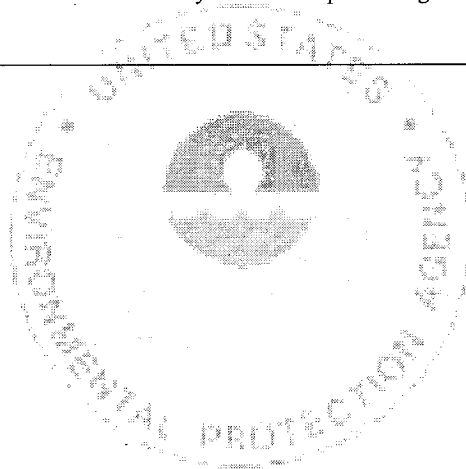
**Full Useful Life Miles: Exhaust Emissions:** 120,000 miles

**Full Useful Life Miles: Evaporative/Refueling Emissions:** 120,000 miles

**Models Covered:** IA Bi-Fuel CNG - GM: CHEVROLET C15 SILVERADO 2WD, CHEVROLET C1500 AVALANCHE 2WD, CHEVROLET C1500 SUBURBAN 2WD, CHEVROLET K15 SILVERADO 4WD, CHEVROLET K1500 AVALANCHE 4WD, CHEVROLET K1500 SUBURBAN 4WD, GMC C15 SIERRA 2WD, GMC C1500 YUKON XL 2WD, GMC K15 SIERRA 4WD, GMC K1500 YUKON XL 4WD

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General Motors test group CGMXT05.3373, evap family CGMXR0223840



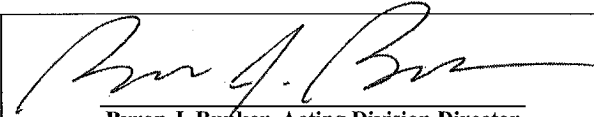


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Certificate Issued To: **IMPCO Technologies, Inc.**  
(Alternative Fuel Converter)  
Certificate Number: **CZ9XT05.3GFC-008**

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Byron J. Bunker, Acting Division Director  
Compliance Division

Issue Date:  
12/14/2011  
Revision Date:  
N/A

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