

SGS Canada Inc. P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-652-2000 FAX: 705-652-6365

Walk In USA

Attn : Phone: , Fax: 29-August-2014

Date Rec.: 09 July 2014 LR Report : CA02302-JUL14 Client Ref: Taotao USA Inc

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Rh	Pt	Pd
	mg/kg	mg/kg	mg/kg
1: EDV-12 L5NAJT16D1000912	< 10	< 10	1023
4: EDV-13 L5NAAELTN0D1000133	54	44	3625
7: EDV-15 L5NAELTNSD1000107	53	47	3024
10: EDV-17 L5NA ELTN5D1000113	54	48	3201
13: EDV-19 L5NAAJT19D1000936	< 10	< 10	981

0000233627

Tom Watt Project Coordinator

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Page 1 of 1



Aug 20, 2014

Taotao USA Inc 14275 Telephone Ave, Unit A Chino, California, USA 91710

Report of sample preparation, sub-sampling and analysis

Reference:

Material:	Metal Cylinder Catalytic Converters
SGS Reference Numbers:	 Precious Metals Analysis Physical Dimensions & Cell Density

Page 1 of 166 total pages

1. General Information

- 1.1 At the request of Jackie Wang from Taotao, SGS was approached to analyse one catalytic converter from an unknown model of vehicle from Taotao USA Inc.to determine their precious metals content.
- 1.2 Through communications, the following measurements were also requested: piece weight, length, diameter, loading and cells per square inch.
- 1.3 The sample preparation and sub-sampling was performed using the sampling method supplied by SGS (see Appendix One). The precious metals analysis was performed using the peroxide fusion method from SGS (see Appendix One).
- 1.4 Calculations for metal loading on the catalytic converter parts were performed using information supplied by the EPA (see Appendix Two).
- The sample was couriered to the SGS laboratory in Lakefield, Ontario, Canada. SGS can make no guarantees or warranties as to whether the sample was unaltered before it was delivered to our site.

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Appendix One

Catalyst preparation and sub-sampling

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Sampling and Precious Metals Analysis

SGS Sampling Method:

Small Motorcycle, ATV or Cart System converters are analyzed at our SGS laboratory in Lakefield, Ontario. These cylinder sleeves are prepared in the following manner as there has been no industry standard protocol as to how they should be prepared and sampled. The following has been used by our clients with very high degree to success.

A 3/8-inch high speed drill running at a slow RPM drills four holes, one in each quarter of the converter, complete through from one end to the other (see diagram below). All material generated is captured in a catch basin placed below the converter during drilling. Once drilling is complete, the entire sub sample is then placed in a container. Pieces of metal mesh are removed from the sub-sample using a magnet and reserved. The remaining material is pulverized as well as possible, knowing that there could still be pieces of the metal mesh present.

This sample is then sent to our precious metals laboratory where it is sub sampled 3 times as explained in the enclosed 13peroxideAAS.pdf document. If there is a large outlier between the triplicate analysis results, a fourth portion is analyzed.

This is the best method we have developed to date as we have had discussions with clients on this matter.



End view of drilling template

Side view of drilling template

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Agreed Test Plan for SGS/Taotao

Catalyst Testing:

The test plan must

-Specify that information of each catalytic converter that is the subject of testing and inspection will be collected and reported to Taotao.

- Weigh entire sample at start (the intact casing, honeycomb mesh interior, and washcoat amount inside); measure the diameter of the mesh and cell density
- Do the coring & collect core samples and washcoat (as discussed on our recent call, include a method for preventing excess washcoat from falling out of other parts of the honeycomb during the drilling process)
- 3. Weigh the core samples and washcoat; set aside for now
- Weigh the remaining casing, washcoat, and mesh (now missing X number of cores) -this is not required, but could be useful in observing loss
- Remove the casing from the remaining mesh; separate these pieces; measure the length of the honeycomb mesh
- Clean the casing: scrape any washcoat powder or small mesh pieces out; put those with the remaining mesh
- 7. Weigh the clean casing
- 8. Weigh the mesh and washcoat remaining after removing the casing
- Return to the core samples of mesh and washcoat collected in coring; tear apart the core samples and remove all washcoat in cores
- 10. Use a magnet to separate the mesh core pieces from the collected washcoat; weigh the washcoat
- Choose a needed portion of the washcoat to analyze; determine the ppm or mg/kg of the platinum group element(s) in the washcoat
- 12. Add the weight from #3 to #8, this is the total weight of honeycomb mesh and washcoat in the sample
- 13. Back estimate the total amount of washcoat in the catalytic converter: multiply the weight from #12 by the weight from #10 and divide that by the weight from #3, this will yield an estimated amount of washcoat in the honeycomb mesh for the entire sample
- Determine the weight of platinum group element in the catalytic converter by multiplying the concentration from #11 to the estimated amount of washcoat from #13 (include weight conversions mg, g, kg)
- Use the measurements from #1 and #5 to calculate the volume of the honeycomb mesh (pi xR²x H); use for loading calculations (g/L)

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Appendix Two

Precious Metals Analysis

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SGS Fusion Method 13peroxideAAS:

- 1. Parameter(s) measured, unit(s): Rhodium (Rh), Platinum (Pt), Palladium (Pd) in %
- 2. Typical sample size: 0.25 - 3.0 g
- 3. Type of sample applicable (media): Automobile and petroleum catalysts
- 4. Sample preparation technique used:

The sample is fused using sodium peroxide at approximately 700°C. The melt is dissolved in water, and acidified with HCI. Tellurium is added followed by stannous chloride addition. The tellurium and precious metal precipitate is filtered out of the solution, and dissolved in aqua regia.

5. Method of analysis used:

Flame atomic absorption spectrometry (AAS) using acid matrix matched calibration materials.

6. Data reduction by:

Computer, on line, data fed to Laboratory Information Management System with secure audit trail.

7. Figures of Merit:

This method has been fully validated for the range of samples typically analyzed. Method validation includes the use of certified reference materials, replicates, duplicates and blanks to calculate accuracy, precision, linearity, range, limit of detection, reporting limit, specificity and measurement uncertainty.

The Reporting Limit has been determined according to the following:

Element	Rh	Pt	Pd
RL(%)	0.001	0.001	0.001

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The estimated Measurement Uncertainty (MU) has been established for the following parameters at various concentration ranges and is based on laboratory replicate data (comprising of different samples, analysts, laboratory conditions, equipment, etc.,) for a period of greater than 3 months.

Concentration	Estimated Meas	Estimated Measurement Uncertainty (MU) +/- % (Absolute)				
Range (%)	Rh	Pt	Pd			
0.001 - 0.005	Not established	0.0001	0.00007			
0.005 - 0.010	0.00004	0.0001	0.0001			
0.010 - 0.025	0.0001	0.0001	0.0001			
0.025 - 0.050	0.0001	0.0002	0.0002			
0.050 - 0.075	0.0003	0.0003	0.0003			
0.075 - 0.100	0.0003	0.0004	0.0005			
0.100 - 0.250	0.0006	0.0006	0.0006			
0.250 - 0.500	0.002	0.001	0.001			
0.500 - 0.750	Not established	0.002	0.001			
0.750 - 1.00	Not established	0.003	0.002			
1.00 - 2.50	Not established	0.006	0.002			
2.50 - 5.00	Not established	Not established	0.006			

Note: Measurement Uncertainty estimates may vary from location to location due to dependency on instrumentation

8. Quality control:

One preparation blank per batch of samples; for party analysis, all samples are in duplicate; for umpire analysis, all samples are done in triplicate. 2-3 certified reference material or in-house reference materials per batch of samples; calibration materials that cover the linear range; one instrument blank per batch of samples, secondary source materials that cover the linear range once per shift; calibration drift check every 5 samples.

9. Accreditation:

The Standards Council of Canada has accredited this test in conformance with the requirements of ISO/IEC 17025. See www.palcan.scc.ca for scope of accreditation.

Note: Scopes of accreditation are site specific; please check with the local representative.

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Appendix Three

Pictures

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EDV-23 L5NAAJT19D1000726



EDV-23 L5NAAJT19D1000726

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EDV-2 L9NTELKED12500045



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EDV-6 L9NTELKEND1250005050





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EPA-001782



EDV-8 L9NTEACT2E1003902



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Appendix Four

Documents and Certificates of Analysis



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Documents and Reports

Weights at prescribed stages

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Repo-Tag : Sample : Sequence	Start Weight g	Metal & Coating Drillings g	Coating Only g	Casing Weight 9	Removed Mesh and Coating 9		
CA02303 JUL14-1 : EDV-23 L5NAAJT	61.55	6,30	1,37	40.10	15.15		
CA02303-JUL14-4: EDV-2 L9NTELKE	143.62	20.80	2.40	16.35	36.44		
CA02303_JUL14-7: EDV-8 L9NTELKE CA02303_JUL14-10: EDV-8 L9NTEAC	143.40 88.16	19.58	2.47	91.31	32.51		
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Walk In USA Attn :

Phone , Fax:

20-August-2014

Date Rec. :	09 July 2014
LR Report :	CA02303-JUL14
Client Ref :	Taotao USA Inc

CERTIFICATE OF ANALYSIS

Final Report

Sample (D	Rh	PI	Po
	mg/kg	mg/kg	mg/kg
1. EDV-23 L5NAAJT19D1000726	< 10	< 10	1005
4 EDV-2 L9NTELKED12500045	< 10	< 10	4486
7 EDV-6 L9NTELKEND1250005050	< 10	< 10	3074
10: EDV-8 L9NTEACT2E1003902	< 10	< 10	3941

Tom Watt

Project Coordinator

Page Lof 1

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SG

August 20, 2014 Taotao USA Inc 14275 Telephone Ave, Unit A Chino, CA

Material: Metal Catalyst Tubes Supplier: Taotao USA Inc.

SGS Reference Numbers: CA02303-JUL14

Page 1 of 1 total pages

Part ID	Rh g/L	Pt g/L	Pd g/L
EDV-23 L5NAAJT19D1000726	0	0	0.1370
EDV-2 L9NTELKED12500045	0	0	0.3849
EDV-6 L9NTELKEND1250005050	0	0	0.2624
EDV-8 L9NTEACT2E1003902	0	0	0.2920

Calculation Formula provided by EPA Signed and dated August 13, 2014

Tom

CS Minerals Services	nalytical			
GS Canada Inc.				
85 Concession Street, Box 4	300			
akefield, Ontario KOL 215 05-652-2177 (P) \ 705-652-6.	0 365(F)			
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Walk In USA

Attn : Phone: , Fax: 29-August-2014

Date Rec. : 09 July 2014 LR Report : CA02303-JUL14 Client Ref: Taotao USA Inc

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Rh	Pt	Pd
	mg/kg	mg/kg	mg/kg
1: EDV-23 L5NAAJT19D1000726	< 10	< 10	1005
4: EDV-2 L9NTELKED12500045	< 10	< 10	4486
7: EDV-6 L9NTELKEND1250005050	< 10	< 10	3074
10: EDV-8 L9NTEACT2E1003902	< 10	< 10	3941

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Tom Watt Project Coordinator

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Sept 29, 2014

Taotao USA Inc 14275 Telephone Ave, Unit A Chino, California, USA 91710

Report of sample preparation, sub-sampling and analysis

Reference:

Material:	Metal Cylinder Catalytic Converters	
SGS Reference Numbers:	 Precious Metals Analysis Physical Dimensions & Cell Density 	

Page 1 of 15 total pages

1. General Information

- 1.1 At the request of Jackie Wang from Taotao, SGS was approached to analyse one catalytic converter from an unknown model of vehicle from Taotao USA Inc.to determine their precious metals content.
- 1.2 Through communications, the following measurements were also requested: piece weight, length, diameter, loading and cells per square inch.
- 1.3 The sample preparation and sub-sampling was performed using the sampling method supplied by SGS (see Appendix One). The precious metals analysis was performed using the peroxide fusion method from SGS (see Appendix One).
- 1.4 Calculations for metal loading on the catalytic converter parts were performed using information supplied by the EPA (see Appendix Two).
- The sample was couriered to the SGS laboratory in Lakefield, Ontario, Canada. SGS can make no guarantees or warranties as to whether the sample was unaltered before it was delivered to our site.

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Appendix One

Catalyst preparation and sub-sampling

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Page 2 of 15



Sampling and Precious Metals Analysis

SGS Sampling Method:

Small Motorcycle, ATV or Cart System converters are analyzed at our SGS laboratory in Lakefield, Ontario. These cylinder sleeves are prepared in the following manner as there has been no industry standard protocol as to how they should be prepared and sampled. The following has been used by our clients with very high degree to success.

A 3/8-inch high speed drill running at a slow RPM drills four holes, one in each quarter of the converter, complete through from one end to the other (see diagram below). All material generated is captured in a catch basin placed below the converter during drilling. Once drilling is complete, the entire sub sample is then placed in a container. Pieces of metal mesh are removed from the sub-sample using a magnet and reserved. The remaining material is pulverized as well as possible, knowing that there could still be pieces of the metal mesh present.

This sample is then sent to our precious metals laboratory where it is sub sampled 3 times as explained in the enclosed 13peroxideAAS.pdf document. If there is a large outlier between the triplicate analysis results, a fourth portion is analyzed.

This is the best method we have developed to date as we have had discussions with clients on this matter.



End view of drilling template

Side view of drilling template

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SGS Fusion Method 13peroxideAAS:

- 1. Parameter(s) measured, unit(s): Rhodium (Rh), Platinum (Pt), Palladium (Pd) in %
- 2. Typical sample size: 0.25 - 3.0 g
- 3. Type of sample applicable (media): Automobile and petroleum catalysts

4. Sample preparation technique used:

The sample is fused using sodium peroxide at approximately 700°C. The melt is dissolved in water, and acidified with HCI. Tellurium is added followed by stannous chloride addition. The tellurium and precious metal precipitate is filtered out of the solution, and dissolved in aqua regia.

5. Method of analysis used:

Flame atomic absorption spectrometry (AAS) using acid matrix matched calibration materials.

6. Data reduction by:

Computer, on line, data fed to Laboratory Information Management System with secure audit trail.

7. Figures of Merit:

This method has been fully validated for the range of samples typically analyzed. Method validation includes the use of certified reference materials, replicates, duplicates and blanks to calculate accuracy, precision, linearity, range, limit of detection, reporting limit, specificity and measurement uncertainty.

The Reporting Limit has been determined according to the following:

Element	Rh	Pt	Pd
RL(%)	0.001	0.001	0.001

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The estimated Measurement Uncertainty (MU) has been established for the following parameters at various concentration ranges and is based on laboratory replicate data (comprising of different samples, analysts, laboratory conditions, equipment, etc.,) for a period of greater than 3 months.

Concentration	Estimated Meas	urement Uncertainty (MU) +/- % (Absolute)
Range (%)	Rh	Pt	Pd
0.001 - 0.005	Not established	0.0001	0.00007
0.005 - 0.010	0.00004	0.0001	0.0001
0.010 - 0.025	0.0001	0.0001	0.0001
0.025 - 0.050	0.0001	0.0002	0.0002
0.050 - 0.075	0.0003	0.0003	0.0003
0.075 - 0.100	0.0003	0.0004	0.0005
0.100 - 0.250	0.0006	0.0006	0.0006
0.250 - 0.500	0.002	0.001	0.001
0.500 - 0.750	Not established	0.002	0.001
0.750 - 1.00	Not established	0.003	0.002
1.00 - 2.50	Not established	0.006	0.002
2.50 - 5.00	Not established	Not established	0.006

Note: Measurement Uncertainty estimates may vary from location to location due to dependency on instrumentation

8. Quality control:

One preparation blank per batch of samples; for party analysis, all samples are in duplicate; for umpire analysis, all samples are done in triplicate. 2-3 certified reference material or in-house reference materials per batch of samples; calibration materials that cover the linear range; one instrument blank per batch of samples, secondary source materials that cover the linear range once per shift; calibration drift check every 5 samples.

9. Accreditation:

The Standards Council of Canada has accredited this test in conformance with the requirements of ISO/IEC 17025. See www.palcan.scc.ca for scope of accreditation.

Note: Scopes of accreditation are site specific; please check with the local representative.

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Appendix Two

Precious Metals Analysis

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Agreed Test Plan for SGS/Taotao

Catalyst Testing:

The test plan must

-Specify that information of each catalytic converter that is the subject of testing and inspection will be collected and reported to Taotao.

- Weigh entire sample at start (the intact casing, honeycomb mesh interior, and washcoat amount inside); measure the diameter of the mesh and cell density
- Do the coring & collect core samples and washcoat (as discussed on our recent call, include a method for preventing excess washcoat from falling out of other parts of the honeycomb during the drilling process)
- 3. Weigh the core samples and washcoat; set aside for now
- Weigh the remaining casing, washcoat, and mesh (now missing X number of cores) -this is not required, but could be useful in observing loss
- Remove the casing from the remaining mesh; separate these pieces; measure the length of the honeycomb mesh
- Clean the casing: scrape any washcoat powder or small mesh pieces out; put those with the remaining mesh
- 7. Weigh the clean casing
- 8. Weigh the mesh and washcoat remaining after removing the casing
- Return to the core samples of mesh and washcoat collected in coring; tear apart the core samples and remove all washcoat in cores
- Use a magnet to separate the mesh core pieces from the collected washcoat; weigh the washcoat
- Choose a needed portion of the washcoat to analyze; determine the ppm or mg/kg of the platinum group element(s) in the washcoat
- Add the weight from #3 to #8, this is the total weight of honeycomb mesh and washcoat in the sample
- 13. Back estimate the total amount of washcoat in the catalytic converter: multiply the weight from #12 by the weight from #10 and divide that by the weight from #3, this will yield an estimated amount of washcoat in the honeycomb mesh for the entire sample
- Determine the weight of platinum group element in the catalytic converter by multiplying the concentration from #11 to the estimated amount of washcoat from #13 (include weight conversions mg, g, kg)
- Use the measurements from #1 and #5 to calculate the volume of the honeycomb mesh (pi xR²x H); use for loading calculations (g/L)

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Appendix Three

Pictures

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EPA-001796



EDV-4-L9NTEACX1D1101627



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EDV-10-L9NTELKAID1050106



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EDV-12-L9NTEACW5C100001





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Appendix Four

Documents and Certificates of Analysis

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EPA-001800



Documents and Reports

Weights at prescribed stages

Dhine Worksheet - ONREPO - [CATO	016-SEP14WSHI		1997			Stario .
	FEEBIUX	8 % X F		12 1		
Sample ID	A Start Weight g	B Metal & Coating Drillings 9	Coat Control Chart a	D sing Weight g	E Removed Mesh and Coating g	
W & LONTEAC X404404627		12 4243		12 1122		
V-10-L9NTELKAID1050106	135.66	12.3631	3.00	81.7632	35.1607	
W-12-L9NTEACW5C100001	95.56	17.8225	3.18	55.0475	22.2495	
Head & Sheet & Test & Sample	KPad Kinstrument /		1			
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Sept 22/14			
Taotao USA Inc 14275 Telephone Ave, Unit A Chino, CA			
Ma	aterial: Metal Cata	lyst Tube	
5U	ppner: Taotao US	A Inc.	
SGS Reference Nur	mbers: CA02321-5	SEP14	Page 1 of 1 total p
Part ID	Rh g/L	Pt g/L	Pd g/L
EDV-4-1 9NTEACX1D1101627	0	0	0.6585
EDV-10-L9NTELKAID1050106	0	0	0.5220
EDV-12-L9NTEACW5C100001	0	0	0.6505
Calculation Formula provided by EP.	A		
Calculation Formula provided by EP. <i>Tom</i> Forn Walt Project Coordinator, Analytical SGS Minerals Services SGS Canada Inc. 185 Concession Street, Ilos 4300 Lakefield, Ontario K01, 2110	A		
Calculation Formula provided by EP. <i>Tom</i> Form Walt Project Coordinator, Analytical SGS Minerals Services SGS Canada Inc. 185 Concession Street, Ilox 4300 Lakefield, Ontario K01, 2110 705-652-2177 (P) 705 652-6365 F) E-mail <u>g</u> :	A		
Calculation Formula provided by EP. <i>Tom</i> Tom Watt Project Coordinator, Analytical SGS Minerals Services SGS Canada Inc. 185 Concession Street, Ilos 4300 Lakefield, Ontario Koll 2110 708-652-2177 (P) 705 652-6365 F) E-mail <u>g</u> This document is issued by the Calculation defined therein.	A ompany under lis Ge intention is drawn to the limits	neral Conditions of ation of fiability, indemnific	Service accessible setion and jurisdiction last
Calculation Formula provided by EP. <i>Tom</i> Form Walt Project Coordinator, Analytical SGS Minerals Services SGS Canada Inc. 185 Concession Street, Box 4300 Lukefield, Ontario K01, 2H0 705-652-2177 (P) 705 652-6365 F) E-mail <u>gr</u> This document is issued by the Co defined therein. Any other holder of this document is advised that Companys findings at the time of its intervention responsibility is to its Client and this document obligations under the transaction documents. Any document is unlawful and offenders may be prose	A ompany under its Ge stention is drawn to the limits the information contained he n only and within the limits does not exonerate parties unauthorized alteration, forg outed to the fullest extent of	neral Conditions of atlon of liability, indemnific areon is limited to visual w of Client's instructions, if to a transaction from ex ery or falsification of the o the law.	Service accessible ration and jurisdiction far thessing only. It reflects any. The Company's rercising all their rights content or appearance of
Calculation Formula provided by EP. <i>Tom</i> Form Watt Project Coordinator, Analytical SGS Minerals Services SGS Canada Inc. 185 Concession Street, Ilos 4300 Lakefield, Ontario Koll 2110 705-652-2177 (P) 705 652-6365 F) E-mail <u>g</u> This document is issued by the Co defined therein. Any other holder of this document is advised that Company's findings at the time of its interventior responsibility is to its Client and this document obligations under the transaction documents. Any document is unlewful and offenders may be prose	A ompany under its Ge intention is drawn to the limits the information contained he n only and within the limits does not exonerate parties unauthorized alteration, for outed to the fullest extent of	neral Conditions of atton of liability, indemnific recon is limited to visual w of Client's instructions, if to a transaction from es ery or fatsification of the o the law.	Service accessible ration and jurisdiction is itnessing only. It reflects any. The Company's ercising all their right content or appearance of
Calculation Formula provided by EP. <i>Tom</i> Form Wall Project Coordinator, Analytical SGS Minerals Versices SGS Canada Inc. 185 Concession Street, Ros 4300 Lakefield, Ontario K01, 2H0 705-652-2177 (P) 705 652-6365 F) E-mail g: This document is issued by the Ca defined therein. Any other holder of this document is advised that Company's findings at the time of its intervention bigations under the transaction documents. Any document is unlawful and offenders may be prose	A ompany under its Ge intention is drawn to the limits does not exonerate parties unauthorized alteration, long cuted to the fullest extent of ett. Lakefield, ON KOM1A0	neral Conditions of ation of liability, indemnific ereon is limited to visual w of Client's instructions, if to a transaction from ex ery or fatsification of the o the law.	Service accessible ration and jurisdiction is intressing only. It reflects any. The Company's cercising all their rights content or appearance of h (205) 652.6365

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SGS Canada Inc. P.O. Box 4390 - 185 Concession SI. Lakefield - Ontario - KOL 2HO Phone: 705-652-2000 FAX: 705-652-6365

Walk In USA

Attn :

.

Phone: , Fax:

23-September-2014

Date Rec. : 09 September 2014 LR Report : CA02321-SEP14 Client Ref : Taotao USA Inc

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Rh	Pt	Pd
	mg/kg	mg/kg	mg/kg
1: EDV-4-L9NTEACX1D1101627	< 10	< 10	5842
4: EDV-10-L9NTELKAID1050106	< 10	< 10	4596
7: EDV-12-L9NTEACW5C100001	< 10	< 10	4639

Tom Watt

Project Coordinator

Minerals Services 185 Concession Street, Lakefield, ON K0L2H0



October 20, 2014

Taotao USA Inc 14275 Telephone Ave, Unit A Chino, California, USA 91710

Report of sample preparation, sub-sampling and analysis

Reference:

Material:	Metal Cylinder Catalytic Converters	
SGS Reference Numbers:	 Precious Metals Analysis Physical Dimensions & Cell Density 	

Page 1 of 155 total pages

1. General Information

- 1.1 At the request of Jackie Wang from Taotao, SGS was approached to analyse one catalytic converter from an unknown model of vehicle from Taotao USA Inc.to determine their precious metals content.
- 1.2 Through communications, the following measurements were also requested: piece weight, length, diameter, loading and cells per square inch.
- 1.3 The sample preparation and sub-sampling was performed using the sampling method supplied by SGS (see Appendix One). The precious metals analysis was performed using the peroxide fusion method from SGS (see Appendix One).
- 1.4 Calculations for metal loading on the catalytic converter parts were performed using information supplied by the EPA (see Appendix Two).
- The sample was couriered to the SGS laboratory in Lakefield, Ontario, Canada. SGS can make no guarantees or warranties as to whether the sample was unaltered before it was delivered to our site.

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Appendix One

Catalyst preparation and sub-sampling

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Page 2 of 15



Sampling and Precious Metals Analysis

SGS Sampling Method:

Small Motorcycle, ATV or Cart System converters are analyzed at our SGS laboratory in Lakefield, Ontario. These cylinder sleeves are prepared in the following manner as there has been no industry standard protocol as to how they should be prepared and sampled. The following has been used by our clients with very high degree to success.

A 3/8-inch high speed drill running at a slow RPM drills four holes, one in each quarter of the converter, complete through from one end to the other (see diagram below). All material generated is captured in a catch basin placed below the converter during drilling. Once drilling is complete, the entire sub sample is then placed in a container. Pieces of metal mesh are removed from the sub-sample using a magnet and reserved. The remaining material is pulverized as well as possible, knowing that there could still be pieces of the metal mesh present.

This sample is then sent to our precious metals laboratory where it is sub sampled 3 times as explained in the enclosed 13peroxideAAS.pdf document. If there is a large outlier between the triplicate analysis results, a fourth portion is analyzed.

This is the best method we have developed to date as we have had discussions with clients on this matter.



End view of drilling template

Side view of drilling template

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SGS Fusion Method 13peroxideAAS:

- 1. Parameter(s) measured, unit(s): Rhodium (Rh), Platinum (Pt), Palladium (Pd) in %
- 2. Typical sample size: 0.25 - 3.0 g
- 3. Type of sample applicable (media): Automobile and petroleum catalysts

4. Sample preparation technique used:

The sample is fused using sodium peroxide at approximately 700°C. The melt is dissolved in water, and acidified with HCI. Tellurium is added followed by stannous chloride addition. The tellurium and precious metal precipitate is filtered out of the solution, and dissolved in aqua regia.

5. Method of analysis used:

Flame atomic absorption spectrometry (AAS) using acid matrix matched calibration materials.

6. Data reduction by:

Computer, on line, data fed to Laboratory Information Management System with secure audit trail.

7. Figures of Merit:

This method has been fully validated for the range of samples typically analyzed. Method validation includes the use of certified reference materials, replicates, duplicates and blanks to calculate accuracy, precision, linearity, range, limit of detection, reporting limit, specificity and measurement uncertainty.

The Reporting Limit has been determined according to the following:

Element	Rh	Pt	Pd
RL(%)	0.001	0.001	0.001

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The estimated Measurement Uncertainty (MU) has been established for the following parameters at various concentration ranges and is based on laboratory replicate data (comprising of different samples, analysts, laboratory conditions, equipment, etc.,) for a period of greater than 3 months.

Concentration	Estimated Meas	Estimated Measurement Uncertainty (MU) +/- % (Absolute)				
Range (%)	Rh	Pt	Pd			
0.001 - 0.005	Not established	0.0001	0.00007			
0.005 - 0.010	0.00004	0.0001	0.0001			
0.010 - 0.025	0.0001	0.0001	0.0001			
0.025 - 0.050	0.0001	0.0002	0.0002			
0.050 - 0.075	0.0003	0.0003	0.0003			
0.075 - 0.100	0.0003	0.0004	0.0005			
0.100 - 0.250	0.0006	0.0006	0.0006			
0.250 - 0.500	0.002	0.001	0.001			
0.500 - 0.750	Not established	0.002	0.001			
0.750 - 1.00	Not established	0.003	0.002			
1.00 - 2.50	Not established	0.006	0.002			
2.50 - 5.00	Not established	Not established	0.006			

Note: Measurement Uncertainty estimates may vary from location to location due to dependency on instrumentation

8. Quality control:

One preparation blank per batch of samples; for party analysis, all samples are in duplicate; for umpire analysis, all samples are done in triplicate. 2-3 certified reference material or in-house reference materials per batch of samples; calibration materials that cover the linear range; one instrument blank per batch of samples, secondary source materials that cover the linear range once per shift; calibration drift check every 5 samples.

9. Accreditation:

The Standards Council of Canada has accredited this test in conformance with the requirements of ISO/IEC 17025. See www.palcan.scc.ca for scope of accreditation.

Note: Scopes of accreditation are site specific; please check with the local representative.

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Appendix Two

Precious Metals Analysis

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Agreed Test Plan for SGS/Taotao

Catalyst Testing:

The test plan must

-Specify that information of each catalytic converter that is the subject of testing and inspection will be collected and reported to Taotao.

- Weigh entire sample at start (the intact casing, honeycomb mesh interior, and washcoat amount inside); measure the diameter of the mesh and cell density
- Do the coring & collect core samples and washcoat (as discussed on our recent call, include a method for preventing excess washcoat from falling out of other parts of the honeycomb during the drilling process)
- 3. Weigh the core samples and washcoat; set aside for now
- Weigh the remaining casing, washcoat, and mesh (now missing X number of cores) -this is not required, but could be useful in observing loss
- Remove the casing from the remaining mesh; separate these pieces; measure the length of the honeycomb mesh
- Clean the casing: scrape any washcoat powder or small mesh pieces out; put those with the remaining mesh
- 7. Weigh the clean casing
- 8. Weigh the mesh and washcoat remaining after removing the casing
- Return to the core samples of mesh and washcoat collected in coring; tear apart the core samples and remove all washcoat in cores
- Use a magnet to separate the mesh core pieces from the collected washcoat; weigh the washcoat
- Choose a needed portion of the washcoat to analyze; determine the ppm or mg/kg of the platinum group element(s) in the washcoat
- Add the weight from #3 to #8, this is the total weight of honeycomb mesh and washcoat in the sample
- 13. Back estimate the total amount of washcoat in the catalytic converter: multiply the weight from #12 by the weight from #10 and divide that by the weight from #3, this will yield an estimated amount of washcoat in the honeycomb mesh for the entire sample
- Determine the weight of platinum group element in the catalytic converter by multiplying the concentration from #11 to the estimated amount of washcoat from #13 (include weight conversions mg, g, kg)
- Use the measurements from #1 and #5 to calculate the volume of the honeycomb mesh (pi xR²x H); use for loading calculations (g/L)

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Appendix Three

Pictures

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EPA-001811



EDV-18 L9NTEACT9E1000849





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EDV-16 L9NTEACW4C1000104



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EDV-24 L9NTEACW6C1000122



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Appendix Four

Documents and Certificates of Analysis

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EPA-001815



Documents and Reports

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Sample ID	A Start Weight g	B Metal & Coating Drillings 9	C Coating Only y	D Casing Weight g	E Removed Mesh and Coating g		
V 18 L9NTEACT9E 1000849	91.63	11.11	1.~590	-58.62	23.691		
V-16 L9NTEACW4C1000104	96.58	11.59	2.7154	55,96	28.20 .		
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	Minerals Services						
	185 Concession St	reet, Lakefield, O	N KOL2HO	t(7	05) 652.2000 t (705) 652	.6365 www.sgs.com	
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October 17, 2014 Taotao USA Inc 14275 Telephone Ave, Unit A Chino, CA

Material: Supplier:

Metal Catalyst Tubes Taotao USA Inc.

SGS Reference Numbers: CA03074-SEP14

Page 1 of 1 total pages

Part ID	Rh g/L	Pt g/L	Pd g/L
EDV-18 L9NTEACT9E1000849	0	0	.4831
EDV-16 L9NTEACW4C1000104	0	0	.8222
EDV-24 L9NTEACW6C1000122	0	0	.6387

Calculation Formula provided by EPA Signed and dated October 17, 2014

Tom

Tom Watt Project Coordinator, Analytical SGN Minerals Services SGS Canada Inc. 185 Concession Street, Box 4300 Lakefield, Ontario K0L 2H0 705-652-2177 (P) 705-652-6365 Fi E-mail 11 2000 2001

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SGS Canada Inc.

P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-652-2000 FAX: 705-652-6365

Walk In USA Attn :

.

Phone: , Fax:

20-October-2014

Date Rec. : 26 September 2014 LR Report : CA03074-SEP14 Client Ref : Taotao USA Inc

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Bh	Pt	Pd
•	mg/kg	mg/kg	mg/kg
1: EDV-18 L9NTEACT9E1000849	< 10	< 10	4399
4: EDV-16 L9NTEACW4C1000104	< 10	< 10	4526
7: EDV-24 L9NTEACW6C1000122	< 10	< 10	4066

Control Quality Assay Not Suitable for Commercial Exchange

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Tom Watt Project Coordinator

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SHET

- NUMBER



November 3, 2014

Taotao USA Inc 14275 Telephone Ave, Unit A Chino, California, USA 91710

Report of sample preparation, sub-sampling and analysis

Reference:

Material:	Metal Cylinder Catalytic Converters	
SGS Reference Numbers:	 Precious Metals Analysis Physical Dimensions & Cell Density 	

Page 1 of 14 total pages

1. General Information

- 1.1 At the request of Jackie Wang from Taotao, SGS was approached to analyse one catalytic converter from an unknown model of vehicle from Taotao USA Inc.to determine their precious metals content.
- 1.2 Through communications, the following measurements were also requested: piece weight, length, diameter, loading and cells per square inch.
- 1.3 The sample preparation and sub-sampling was performed using the sampling method supplied by SGS (see Appendix One). The precious metals analysis was performed using the peroxide fusion method from SGS (see Appendix One).
- 1.4 Calculations for metal loading on the catalytic converter parts were performed using information supplied by the EPA (see Appendix Two).
- The sample was couriered to the SGS laboratory in Lakefield, Ontario, Canada. SGS can make no guarantees or warranties as to whether the sample was unaltered before it was delivered to our site.



Appendix One

Catalyst preparation and sub-sampling

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Page 2 of 14

EPA-001820



Sampling and Precious Metals Analysis

SGS Sampling Method:

Small Motorcycle, ATV or Cart System converters are analyzed at our SGS laboratory in Lakefield, Ontario. These cylinder sleeves are prepared in the following manner as there has been no industry standard protocol as to how they should be prepared and sampled. The following has been used by our clients with very high degree to success.

A 3/8-inch high speed drill running at a slow RPM drills four holes, one in each quarter of the converter, complete through from one end to the other (see diagram below). All material generated is captured in a catch basin placed below the converter during drilling. Once drilling is complete, the entire sub sample is then placed in a container. Pieces of metal mesh are removed from the sub-sample using a magnet and reserved. The remaining material is pulverized as well as possible, knowing that there could still be pieces of the metal mesh present.

This sample is then sent to our precious metals laboratory where it is sub sampled 3 times as explained in the enclosed 13peroxideAAS.pdf document. If there is a large outlier between the triplicate analysis results, a fourth portion is analyzed.

This is the best method we have developed to date as we have had discussions with clients on this matter.



End view of drilling template

Side view of drilling template





SGS Fusion Method 13peroxideAAS:

- 1. Parameter(s) measured, unit(s): Rhodium (Rh), Platinum (Pt), Palladium (Pd) in %
- 2. Typical sample size: 0.25 - 3.0 g
- Type of sample applicable (media): Automobile and petroleum catalysts

4. Sample preparation technique used:

The sample is fused using sodium peroxide at approximately 700°C. The melt is dissolved in water, and acidified with HCI. Tellurium is added followed by stannous chloride addition. The tellurium and precious metal precipitate is filtered out of the solution, and dissolved in aqua regia.

5. Method of analysis used:

Flame atomic absorption spectrometry (AAS) using acid matrix matched calibration materials.

6. Data reduction by:

Computer, on line, data fed to Laboratory Information Management System with secure audit trail.

7. Figures of Merit:

This method has been fully validated for the range of samples typically analyzed. Method validation includes the use of certified reference materials, replicates, duplicates and blanks to calculate accuracy, precision, linearity, range, limit of detection, reporting limit, specificity and measurement uncertainty.

The Reporting Limit has been determined according to the following:

Element	Rh	Pt	Pd
RL(%)	0.001	0.001	0.001

Minerals Services 185 Concession Street, Lakefield, ON K0L2H0



The estimated Measurement Uncertainty (MU) has been established for the following parameters at various concentration ranges and is based on laboratory replicate data (comprising of different samples, analysts, laboratory conditions, equipment, etc.,) for a period of greater than 3 months.

Concentration	Estimated Measurement Uncertainty (MU) +/- % (Absolute)					
Range (%)	Rh	Pt	Pd			
0.001 - 0.005	Not established	0.0001	0.00007			
0.005 - 0.010	0.00004	0.0001	0.0001			
0.010 - 0.025	0.0001	0.0001	0.0001			
0.025 - 0.050	0.0001	0.0002	0.0002			
0.050 - 0.075	0.0003	0.0003	0.0003			
0.075 - 0.100	0.0003	0.0004	0.0005			
0.100 - 0.250	0.0006	0.0006	0.0006			
0.250 - 0.500	0.002	0.001	0.001			
0.500 - 0.750	Not established	0.002	0.001			
0.750 - 1.00	Not established	0.003	0.002			
1.00 - 2.50	Not established	0.006	0.002			
2.50 - 5.00	Not established	Not established	0.006			

Note: Measurement Uncertainty estimates may vary from location to location due to dependency on instrumentation

8. Quality control:

One preparation blank per batch of samples; for party analysis, all samples are in duplicate; for umpire analysis, all samples are done in triplicate. 2-3 certified reference material or in-house reference materials per batch of samples; calibration materials that cover the linear range; one instrument blank per batch of samples, secondary source materials that cover the linear range once per shift; calibration drift check every 5 samples.

9. Accreditation:

The Standards Council of Canada has accredited this test in conformance with the requirements of ISO/IEC 17025. See www.palcan.scc.ca for scope of accreditation.

Note: Scopes of accreditation are site specific; please check with the local representative.

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Appendix Two

Precious Metals Analysis

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Agreed Test Plan for SGS/Taotao

Catalyst Testing:

The test plan must

-Specify that information of each catalytic converter that is the subject of testing and inspection will be collected and reported to Taotao.

- Weigh entire sample at start (the intact casing, honeycomb mesh interior, and washcoat amount inside); measure the diameter of the mesh and cell density
- Do the coring & collect core samples and washcoat (as discussed on our recent call, include a method for preventing excess washcoat from falling out of other parts of the honeycomb during the drilling process)
- 3. Weigh the core samples and washcoat; set aside for now
- Weigh the remaining casing, washcoat, and mesh (now missing X number of cores) -this is not required, but could be useful in observing loss
- Remove the casing from the remaining mesh; separate these pieces; measure the length of the honeycomb mesh
- Clean the casing: scrape any washcoat powder or small mesh pieces out; put those with the remaining mesh
- 7. Weigh the clean casing
- 8. Weigh the mesh and washcoat remaining after removing the casing
- Return to the core samples of mesh and washcoat collected in coring; tear apart the core samples and remove all washcoat in cores
- 10. Use a magnet to separate the mesh core pieces from the collected washcoat; weigh the washcoat
- Choose a needed portion of the washcoat to analyze; determine the ppm or mg/kg of the platinum group element(s) in the washcoat
- 12. Add the weight from #3 to #8, this is the total weight of honeycomb mesh and washcoat in the sample
- 13. Back estimate the total amount of washcoat in the catalytic converter: multiply the weight from #12 by the weight from #10 and divide that by the weight from #3, this will yield an estimated amount of washcoat in the honeycomb mesh for the entire sample
- Determine the weight of platinum group element in the catalytic converter by multiplying the concentration from #11 to the estimated amount of washcoat from #13 (include weight conversions mg, g, kg)
- Use the measurements from #1 and #5 to calculate the volume of the honeycomb mesh (pi xR²x H); use for loading calculations (g/L)

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Appendix Three

Pictures

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EPA-001826



EDV-20 L9NTEACX9D1150770



EDV-20 L9NTEACX9D1150770

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EDV-22 L9NTEACX6D1101302



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Appendix Four

Documents and Certificates of Analysis

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EPA-001829



Documents and Reports

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Sample ID	A Start Weight 9	B Metal & Conting Drillings 9	C Costing Only g	D Casing Weight 9	E Removed Mesh and Coating g		
DV-20 L9NTEACX9D1150770	87.1	15.0*	2.97	55.62	20.49		
EDV-22 LINITEACX6D1101302	103.2	14.55	5.10	85.59	32.38		
(Head) Sheet (Test (Sample (Pad)	(Instrument /			<u>.</u>		101110-76	
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November 27, 2014 Taotao USA Inc 14275 Telephone Ave, Unit A Chino, CA

Chino, CA								
Mate Supp	erial: Metal Cat plier: Taotao US	alyst Tubes SA Inc.						
SGS Reference Numbers: CA02010-NOV14 Page 1 of 1 total p								
Part ID	Rh g/L	Pt g/L	Pd g/L					
EDV-20 L9NTEACX9D1150770	0	0	0.6513					
EDV-22 L9NTEACX6D1101302	0	0	1.1588					
Calculation Formula provided by EPA Signed and dated November 27, 2014	1							
Tom								
on Vatt								

Project Coordinator, Analytical SGS Minerals Services SGS Canada Inc. 185 Concession Street, Box 4300 Lakefield, Ontario K0L 2H0 705-652-2177 (P)\705-652-6365(F) E-mail tom.watt@ps.com

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Walk In USA Attn : David 12-December-2014

Date Rec. : 03 November 2014 LR Report : CA02010-NOV14 Client Ref : Taotao USA Inc.

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Rh	Pt	Pd
	mg/kg	mg/kg	mg/kg
1: EDV-20 L9NTEACX9D1150770	< 10	< 10	4215
4: EDV 22 L9NTEACX6D1101302	< 10	< 10	3615

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t(705) 652 2000 f(705) 652.6365

Tom Watt Project Coordinator

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