



Subject: Intertek Caleb Brett Belgium N.V

Introduction

Intertek Group Plc is a global company specialising in testing, inspection and certification services. The reports attached were originally commissioned by an Independent Distributor. Subsequently, FFi Europe purchased the report in order to share the results with all Distributors.

As you will see, the reports prove and conclude that the MPG-CAP™ and MPG-MEGA-CRUMBS™ are not harmful to the diesel or the engine. Furthermore, the reports conclude that the MPG-CAP™ and MPG-MEGA-CRUMBS™ are actually beneficial to both.

Certificates of Analysis for MPG-CAP™ and MPG-MEGA-CRUMBS™

Certificate of Analysis A186.004

Analysis of diesel (blanco) without the MPG-CAP™ or MPG-MEGA-CRUMBS™.

Certificate of Analysis A186.006

Analysis of the diesel with the MPG-CAP™ tested in a car. The report confirms that the analysis conforms to European methodologies and specifications (EN 590) and that there is no negative effect on fuel quality when the MPG-CAP™ is present.

Certificate of Analysis A186.007

Analysis of the diesel with the MPG-MEGA-CRUMBS™ tested in a truck. It confirms that the testing conforms to European methodologies and specifications (EN 590) and that there is no negative effect on fuel quality when the MPG-MEGA-CRUMBS™ are present.

Certificate of Analysis A186.181

Lubricity findings. This test indicates that the the quantity of lubrication when MPG-MEGA-CRUMBS™ are present increases. This in turn decreases the wear and tear typically caused by movement between engine parts.

CERTIFICATE OF ANALYSIS

Our ref. A186.004/2006
Sample No. 359751
Product **DIESEL**
Description Sample marked as: Blanco Diesel

Test	Method	Unit	Specification	Result
A Cetane Number	ISO 5165		min. 51.0	54.0
A Cetane index	ISO 4264		min. 46.0	51.0
A Density at 15 °C	EN ISO 12185	kg/m ³	820 - 845	840.5
A Polycyclic Aromatic content	EN 12916	% (m/m)	max. 11	3.0
A Sulphur content	ISO 20884	mg/kg	max. 50	18
A Flash point	EN 22719	°C	> 55.0	65.0
A Conradson Carbon Res. On 10% res.	EN ISO 10370	mass %	max. 0.30	0.01
A Ash content	EN 6245	mass %	max 0.01	0.002
A Water content	EN ISO 12937	mg/kg	max. 200	50
A Total Sediments	EN 12662	mg/kg	max. 24	1
A Copper Corrosion	EN ISO 2160		class 1	1a
A Oxidation Stability	EN ISO 12205	g/m ³	max. 25	1
A Lubricity	ISO 12156-1	µm	max. 460	236
A Viscosity at 40°C	ISO 3104	mm ² /s	2.00 - 4.50	2.710
A Distillation at 760 mm Hg	ISO 3405			
Recovered at 250 °C		% (v/v)	max. 65	34.2
Recovered at 350 °C		% (v/v)	min. 85	92.2
95%		°C	max. 360	362.3
A Fatty Acid Methyl Ester	EN 14078	% (v/v)	max 5	0.2
A Cold Filter Plugging Point (CFPP)	EN 116	°C	max. -15	-10
A Solvent Yellow marker	AFNOR XPM 07113	mg/l	max. 0,05	<0,05

(A) Accredited by Belac

Date of issue: 2006, September 15

Approved by
Peter Gysen
Laboratory Manager
Intertek Caleb Brett Belgium
Intertek Caleb Brett Belgium N.V.
Peter GYSEN
Lab Manager

Precision complies with the precision mentioned in the reference method.

This analytical report is only issued in the name and for account of the principal who recognises that this report purely represents the situation at a given moment. The principal commits himself to disclose each time the complete report and not parts of the report. Fax and E-mail copies have no legal force.

This analytical report can only be used within the specific context of the order and is only valid for the samples analysed and for the company that gave the order.

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CERTIFICATE OF ANALYSIS

Our ref. A186.006/2006
Sample No. 359752
Product **DIESEL**
Description Sample marked as: MPG-CAPS™ Car

Test	Method	Unit	Specification	Result
A Cetane Number	ISO 5165		min. 51.0	54.0
A Cetane index	ISO 4264		min. 46.0	51.1
A Density at 15 °C	EN ISO 12185	kg/m ³	820 - 845	840.5
A Polycyclic Aromatic content	EN 12916	% (m/m)	max. 11	3.1
A Sulphur content	ISO 20884	mg/kg	max.50	19
A Flash point	EN 22719	°C	> 55.0	64.0
A Conradson Carbon Res. On 10% res.	EN ISO 10370	mass %	max. 0.30	0.02
A Ash content	EN 6245	mass %	max 0.01	0.001
A Water content	EN ISO 12937	mg/kg	max. 200	50
A Total Sediments	EN 12662	mg/kg	max. 24	1
A Copper Corrosion	EN ISO 2160		class 1	1a
A Oxidation Stability	EN ISO 12205	g/m ³	max. 25	2
A Lubricity	ISO 12156-1	µm	max. 460	191
A Viscosity at 40°C	ISO 3104	mm ² /s	2.00 - 4.50	2.710
A Distillation at 760 mm Hg	ISO 3405			
Recovered at 250 °C		% (v/v)	max. 65	33.7
Recovered at 350 °C		% (v/v)	min. 85	92.0
95%		°C	max. 360	363.6
A Fatty Acid Methyl Ester	EN 14078	% (v/v)	max 5	0.1
A Cold Filter Plugging Point (CFPP)	EN 116	°C	max. -15	-11
A Solvent Yellow marker	AFNOR XPM 07113	mg/l	max. 0,05	<0,05

(A) Accredited by Belac

Comments:

The analysis is performed according full EN 590 described methodologies and specifications
All discrepancies between the results A 186006/2006 and the analysis of the blanco gasoil A186004/2006
are acceptable and are not referring to any indication of negative impacts on the fuel quality after using of
the MPG-CAPS™ Car

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CERTIFICATE OF ANALYSIS

Our ref. A186.007/2006
Sample No. 359753
Product **DIESEL**
Description Sample marked as: MPG-MEGA-CRUMBS™ Truck

Test	Method	Unit	Specification	Result
A Cetane Number	ISO 5165		min. 51.0	53.9
A Cetane index	ISO 4264		min. 46.0	50.8
A Density at 15 °C	EN ISO 12185	kg/m ³	820 - 845	840.5
A Polycyclic Aromatic content	EN 12916	% (m/m)	max. 11	2.8
A Sulphur content	ISO 20884	mg/kg	max.50	18
A Flash point	EN 22719	°C	> 55.0	64.0
A Conradson Carbon Res. On 10% res.	EN ISO 10370	mass %	max. 0.30	0.01
A Ash content	EN 6245	mass %	max 0.01	<0.001
A Water content	EN ISO 12937	mg/kg	max. 200	50
A Total Sediments	EN 12662	mg/kg	max. 24	1
A Copper Corrosion	EN ISO 2160		class 1	1a
A Oxidation Stability	EN ISO 12205	g/m ³	max. 25	3
A Lubricity	ISO 12156-1	µm	max. 460	173
A Viscosity at 40°C	ISO 3104	mm ² /s	2.00 - 4.50	2.712
A Distillation at 760 mm Hg	ISO 3405			
Recovered at 250 °C		% (v/v)	max. 65	34.5
Recovered at 350 °C		% (v/v)	min. 85	93.3
95%		°C	max. 360	356.8
A Fatty Acid Methyl Ester	EN 14078	% (v/v)	max 5	0.1
A Cold Filter Plugging Point (CFPP)	EN 116	°C	max. -15	-11
A Solvent Yellow marker	AFNOR XPM 07113	mg/l	max. 0,05	<0,05

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Comments:

The analysis is performed according full EN 590 described methodologies and specifications
All discrepancies between the results A 186007/2006 and the analysis of the blanco gasoil A186004/2006
are acceptable and are not referring to any indication of negative impacts on the fuel quality after using of
the MPG-MEGA-CRUMBS™

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Peter GYSEN
Lab Manager

CERTIFICATE OF ANALYSIS

Our ref. A186.181/2006

Sample No.

Product

DIESEL

Description

Sample marked as: MPG-MEGA-CRUMBS™ Truck

Test	Method	Unit	Specification	Result
A Lubricity HFRR	ISO 12156-1	µm	max. 460	

Blanco

Analysis 1	296
Analysis 2	320
Analysis 3	334
Mean	317

Blanco + MPG-MEGA-CRUMBSTM Truck

Analysis 1	287
Analysis 2	299
Analysis 3	275
Mean	287

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This test gives an indication of the quantity of lubrication when additives are used in diesel fuel. It indicates the wear and tear of properties between 2 metal parts. Test results show that the wear and tear effect between moving parts in a diesel engine are decreasing.

Conclusion: above results show a slightly increase of lubrication, after adding MPG-MEGA-CRUMBS™

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