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REPORT
**of comparative field test for the effect of BPI bio catalyzer to the effectiveness of the KamAZ-44118
bolster-type tractor engine**

City of Tomsk

10.04.2009

1. Initial data

A tractor-lorry-trailer combination composed of the KamAZ-44108 bolster-type tractor (license plate number E084CK70) and the semitrailer (license plate number 04-87 TO). Owner: “TK “Sibtrans” LLC.

The tractor-lorry-trailer combination was used in regular cargo delivery trips to the oil fields of Tomsk region (Urmanskoye, Pudino, Archinskoye). The duration of a highway trip (3/4 – concrete hard surface (2 category) and ¼ - unsurfaced road (4-5 category)) was between 830 and 1560 km.

2. Vehicle field test performance conditions

All data about trips performed by KamAZ-44108 with and without BPI catalyzer during this comparative filed test are listed in Table 1-4.

Trips No.1 and No.2 were performed without adding BPI catalyzer into the diesel, and the average fuel consumption was 70.6 l/100 km.

According to the BPI catalyzer manufacturer’s recommendations, during the trip No.3 a double dose of concentrated product (1:10000) was added to the diesel, i.e. at 1 g per 5 liters of fuel.

According to the BPI catalyzer manufacturer’s recommendations, during the trip No.4 just a single dose of concentrated product (1:10000) was added to the diesel, i.e. at 1 g per 5 liters of fuel.

The fuel consumption comparison is based upon the data of a GPS-navigator installed in tractor cab as well as waybills with the information about ambient temperature, cargo weight, train mileage, volume of allocated and remaining fuel.

Table 1

Information about trips performed by the KamAZ-44108 bolster-type tractor without adding BPI catalyzer

<p><u>Trip No.1 Duration:</u> 18.02.09 – 21.02.09 Source of information:</p> <ol style="list-style-type: none">1. Waybill<ol style="list-style-type: none">1.1. Ambient temperature = -31°C1.2. Cargo weight 17,7 tons1.3. Fuel allocated: 1020 liters1.4. Mileage at speedometer – 1380 km2. GPS<ol style="list-style-type: none">2.1. Mileage 1365,9 km2.2. Fuel consumed 1001 liters2.3. Average speed 38,8 km/h	<p>Fuel consumption: $(1020*100)/1365,9 = 73,9$ l/100 km</p> <p>Fuel consumption: $(1001*100)/1365,9 = 73,3$ l/100 km</p>
<p><u>Trip No.2 Duration:</u> 24.02.09 – 26.02.09 Source of information:</p> <ol style="list-style-type: none">1. Waybill<ol style="list-style-type: none">1.1. Ambient temperature = -21°C1.2. Cargo weight 13,5 tons1.3. Fuel consumed: 564 liters1.4. Mileage at speedometer – 816 km2. GPS<ol style="list-style-type: none">2.1. Mileage 831 km	<p>Fuel consumption: $(564*100)/816 = 69,1$ l/100 km</p> <p>Fuel consumption:</p>

2.2 Fuel consumed 564,1 liters 2.3 Average speed 30,15 km/h	$(564,1 * 100) / 831 = 67,9$ l/100 km
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Summary: the average fuel consumption for 2 trips without adding BPI catalyzer into diesel is:
 $(73,3 + 67,9) / 2 = 70,6$ l/100 km

Table 2

Information about trips performed by the KamAZ-44108 bolster-type tractor adding BPI catalyzer

<p><u>Trip No.3 Duration:</u> 06.03.09 – 10.03.09 (double dose of BPI catalyzer is added into fuel) Source of information:</p> <ol style="list-style-type: none"> 1. Waybill <ol style="list-style-type: none"> 1.1. Ambient temperature = -30°C 1.2. Cargo weight 7 tons 1.3. Fuel allocated: 544 liters 1.4. Mileage at speedometer – 1140 km 2. GPS <ol style="list-style-type: none"> 2.1. Mileage 1139 km 2.2. Fuel consumed 590,2 liters 2.3. Average speed 48,4 km/h 	<p>Fuel consumption: $(544 * 100) / 1140 = 47,7$ l/100 km Remaining fuel: 221 liters</p> <p>Fuel consumption: $(590,2 * 100) / 1139 = 51,8$ l/100 km</p>
<p><u>Trip No.4 Duration:</u> 12.03.09 – 16.03.09 (single dose of BPI catalyzer is added into fuel) Source of information:</p> <ol style="list-style-type: none"> 1. Waybill <ol style="list-style-type: none"> 1.1. Ambient temperature = -10°C 1.2. Cargo weight 18 tons 1.3. Fuel allocated $100 + 185 + 221 = 735$ liters – 100 (remaining) = 635 + 200 liters (second tank) = 835 liters 1.4. Mileage at speedometer – 1561 km 2. GPS <ol style="list-style-type: none"> 2.1. Mileage 1355,7 km 2.2. Fuel consumed 827,8 liters 2.3. Average speed 30,5 km/h 	<p>Remaining fuel: 100 liters Fuel consumption: $(835 * 100) / 1561 = 53,5$ l/100 km</p> <p>Linear fuel consumption: $(827,8 * 100) / 1355,7 = 61,1$ l/100 km</p>

Summary: the average fuel consumption for 2 trips adding BPI catalyzer into diesel is:
 $(51,8 + 61,1) / 2 = 56,45$ l/100 km

Findings.

The above fuel consumption accounts (according to waybills and GPS data) indicate that with the use of BPI bio catalyzer the decrease of linear fuel consumption per trip in winter conditions in frigid climate zone (Tomsk region) is 14,15 l/100 km or 20,04%.

These results confirm the effectiveness and safety of BPI bio catalyzer in operation of diesel-powered vehicles.

This report is signed by:

On behalf of “TK “Sibtrans” LLC
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