



## TECHNICAL REPORT FOR APPLICATION OF XADO TECHNOLOGY ON VEHICLES

**1. Report Objective:** To verify effectiveness of Xado technology on vehicles

**2. Tested engine:** 1987 TOYOTA pickup truck  
Odometer Reading: 415857 km  
Engine type: 22R, 4-cylinder with carburetor  
Transmission: standard 5-speed  
Rear wheel drive (RWD)  
Engine operation: not stable  
Present noise from the crankshaft radial bearings

### **3. Performance test**

Engine and transmission oil has been changed.

Engine oil used: SAE 0W30, API SL  
Transmission oil used : Synthetic oil SAE 75W90.  
The vehicle has passed 10 km after oil exchange.  
Status of spark plugs: 1-st and 2-nd cylinder - dry  
3-rd and 4-th cylinder – oily

Gas consumption (in idle operation): Engine has burned the testing quantity of 700 ml in **29 min. 37 sec**

#### **3.1 Application of XADO technology**

For standard type transmission with 3 L of oil:

➤ Used two 9 ml tubes of XADO - Transmission and Gear Box gel revitalisant

For rear differential used with 1.5 L of oil:

➤ Used one 9 ml tube of XADO - Transmission and Gear Box gel revitalisant

For engine with 4 L of oil, after reaching working temperature:

- One 9ml tube of XADO – Gel Revitalisant for Gasoline Engines was added to the engine oil

Engine was idling on parking for 15 minutes prior diving out on the highway. The max. speed reached in 5-th gear was 130 km

- As per the User Instructions after each 250 km, two more 9 ml tubes of XADO for Gas Engines were added to the engine oil.

### 3.2 Intermediate results

**On Dec. 09, 2003 after XADO application and passed 700 km, measured value of compression was:**

	1-st cylinder	2-nd cylinder	3-rd cylinder	4-th cylinder
<b>P</b> kPa	1100	1225	1250	1180

Working surface of all spark plugs is dry and clean, with brown to grayish color, plugs in 3-rd and 4-th cylinders are still oily.

After 25-30 hours of engine operating time and 1940 km from the XADO application, engine performance just by observation has noticeably improved. Engine responsiveness and acceleration has increased, engine runs smoother and less noisy. The vibrations from the transmission, specially in neutral are also decreased.

The maximal speed on equal portion of highway in 5-th gear has increased to 155 km / hour. That indirectly indicates increase of the engine power and reduction in losses due to lower friction in transmissions.

**On Dec. 16, 2003 and passed 1940 km, measured value of compression was:**

	Date of measurement	Status	1-st cylinder	2-nd cylinder	3-rd cylinder	4-th cylinder
<b>P</b> kPa	09 Dec 03	with XADO after 700 km	1100	1225	1250	1180
<b>P</b> kPa	<b>16 Dec 03</b>	<b>with XADO after 1940 km</b>	<b>1050</b>	<b>1290</b>	<b>1300</b>	<b>1250</b>

Working surfaces of all spark plugs are dry, with brown to grayish color, **without** traces of oil.

Additionally after 1940 km measurement of the engine gas consumption (in idle operation) was repeated with following result: Engine has burned the testing quantity of 700 ml in **33 min. 27 sec.**

Comparing with the initial fuel consumption measurement an 12 % improvement has been observed, confirming better fuel combustion and friction reduction. The engine RPM has slightly increased.

For duration of the performance of tests it was added 1.5 L of the oil to the engine. One liter was added for the first 1000 km and 0.5 for the other 940 km, indicating a drop in the oil consumption.

#### 4. FINAL RESULTS

**On Jan. 13, 2003 and passed 3560 km, measured value of compression was:**

	Date of measurement	Status	1-st cylinder	2-nd cylinder	3-rd cylinder	4-th cylinder
<b>P</b> kPa	09 Dec 03	with XADO after 700 km	1100	1225	1250	1180
<b>P</b> kPa	16 Dec 03	with XADO after 1940 km	1050	1290	1300	1250
<b>P</b> kPa	13 Dec 03	with XADO after 3560 km	1220	1350	1300	1300
<b>TOTAL COMPRESSION INCREASE %</b>			<b>9.8 %</b>	<b>9.2 %</b>	<b>3.8 %</b>	<b>9.2 %</b>

#### 5. CONCLUSION

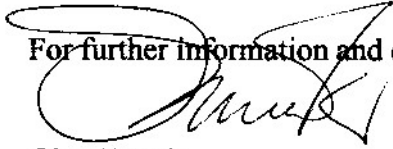
After application of XADO technology on 1987 TOYOTA pickup truck we confirm the following:

- Gas consumption has dropped by 12 %
- Engine runs smoother and with less noise
- Oil burning has decreased
- Vehicle maximal speed on equal portion of highway in the 5-th gear has increased from 130 km/ hour to 155 km / hour. That indirectly indicates an 16 % increase in engine power and reduction in losses due to lower friction in transmissions

After this first and very positive experience with the XADO technology, we have continued to apply this technology on other units with the same favorable results:

- 88 Dodge Caravan with a noise valve lifter. Upon XADO application to engine oil and additional 3000 km, the noise from the area has disappeared.
- 89 Nissan – XADO added to manual transmission
- 90 Ford super Duty Truck – XADO has reduced noise from the Power Steering system
- 85 Air Compressor - with XADO works much smoother

For further information and questions please contact,



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