PROTOCOL NO. 0208 OF 13 AUGUST 2002

UAZ-69 engine and gearbox: compression up, exhaust cleaner, gears shift more easily

Elektrorazpredelenie EAD, Plovdiv · signed by: garage manager Zapryan Raychev, mechanic Hristo Bonev · exhaust gas measurement — "FORD" auto service, B. Yordanov

Plovdiv, Bulgaria · measurements on 11.07.2002 and 13.08.2002 · protocol on the letterhead of "MAY" OOD dated 13.08.2002

PRODUCT

Treatment by XADO technology

the engine and the gearbox of the vehicle were treated

TEST OBJECT

UAZ-69 light vehicle

reg. no. RV 1344 VV · petrol engine, 4 cylinders

DOCUMENT TYPE

Commission protocol with signatures and stamps

MACHINE AND UNIT	MILEAGE AT TEST START	WHAT WAS MEASURED
UAZ-69, reg. no. RV 1344 VV — engine, 4 cylinders	**126,000 km**	Compression in each of the four cylinders; CO and CH in the exhaust gases
Same vehicle — gearbox	**126,000 km**	In-service assessment: noise, gear engagement

Between the measurements the vehicle covered **2,680 km** of normal service: **11.07.2002** → **13.08.2002**.

Key results

↑ 8 %

compression across the cylinders, 7.5-8.0 → 8.0-9.0 atm

↓ 43-50 %

exhaust toxicity, CO 6.58 → 3.75 % and CH 375 → 187 ppm

Engine compression by cylinder

CYLINDER	BEFORE TREATMENT, ATM	AFTER, ATM	GAIN, ATM
I	7.5	8.0	+0.5
II	7.5	8.0	+0.5
III	8.0	9.0	+1.0
IV	8.0	9.0	+1.0

Compression rose in all four cylinders. The gain is capped by the engine's factory nominal: compression cannot rise above it.

Exhaust gas toxicity

PARAMETER	BEFORE TREATMENT	AFTER	CHANGE
CO, % in exhaust	6.58 %	3.75 %	−43 %
CH, ppm	375 ppm	187 ppm	−50 %

The exhaust gas measurement was carried out and certified with its own stamp by an outside contractor — "FORD" auto service, B. Yordanov.

Protocol conclusions

The commission of Elektrorazpredelenie EAD, Plovdiv, together with "MAY" OOD recorded the following results of the treatment by XADO technology:

1. Compression in the cylinders increased by **8 %** on average.
2. Emission of toxic substances in the exhaust dropped by **43 – 50 %**.
3. Gearbox performance improved: the noise in operation disappeared, the gears became easier to engage. The vehicle came to the treatment with **126,000 km** on the odometer, and after only **2,680 km** of normal service the compression had risen in all four cylinders, while the CO and CH content in the exhaust gases fell roughly by half. The engine and the gearbox were neither disassembled nor repaired: the result was obtained on machinery that kept working every day.

XADO

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The results relate to the petrol engine and the gearbox of a UAZ-69 vehicle with 126,000 km on the odometer, operated by Elektrorazpredelenie EAD, Plovdiv; on other machinery and under other duty cycles the figures may differ. The original of protocol no. 0208 of 13.08.2002 with signatures and stamps is published in full and available for download.