

REPORT ON TREATMENT OF VEHICLE UNITS · 23.11.2002 — 16.01.2003

VAZ-21310: compression and traction up, transmission noise gone

SPK — Murman fishing collective farm, approved by the chairman of the cooperative A. I. Chechuy · treatment carried out by Arktik-Avto LLC, director I. V. Pavlov

Teriberka settlement, Murmansk Region, Russia · treatment 23.11.2002 · follow-up measurement 16.01.2003 · run 3135 km

PRODUCT

XADO revitalizant gels
for petrol engines · for
gearboxes and final drives of all
types

TREATED OBJECT

VAZ-21310, reg. no. Kh 923
AU 51
engine, gearbox, transfer case,
front and rear axle

DOCUMENT TYPE

Report on treatment of
units,
signatures and stamps of
both parties

UNIT**MILEAGE AT START****WHAT WAS ASSESSED**

Petrol engine

88 530 km

Compression on all four cylinders, noise and vibration,
traction and throttle response

Gearbox

88 530 km

Noise while driving, precision of gear engagement

Transfer case

88 530 km

Noise and vibration while driving

Front and rear axle

88 530 km

Noise while driving, including at 40-60 km/h

The vehicle is in regular service; all units were treated with XADO revitalizant gels without disassembly, run before the follow-up measurement — {{3135 km}}.

Key result

↑ **16.4 %**

compression across the cylinders, 9-10 → 11-11.5

Engine compression by cylinder

CYLINDER	BEFORE TREATMENT	AFTER TREATMENT	CHANGE
1st	10	11.4	+1.4
2nd	10	11.5	+1.5
3rd	10	11.5	+1.5
4th	9	11	+2
Engine average	9.75	11.35	+1.6

Measurements on 23.11.2002 and 16.01.2003, with **3135 km** of running between them. The largest gain is on the most worn cylinder; the spread between cylinders halved.

Condition of the units before and after treatment

UNIT	BEFORE TREATMENT	AFTER TREATMENT
Engine	Elevated noise and vibration, low traction and throttle response	Noise and vibration decreased, traction and throttle response increased, oil pressure and idle speed rose
Gearbox	Elevated noise; 3rd and 5th gears jump out while driving	Noise gone, gears engage precisely
Transfer case	Elevated noise and vibration while driving	Noise and vibration gone
Front axle	Elevated noise while driving	Noise gone
Rear axle	Elevated noise while driving	Noise gone after an additional treatment of the axle on 20.12.2002

All driveline units were treated with XADO revitalizant gel for gearboxes and final drives, the engine — with the gel for petrol engines, without disassembling the units.

What the report records

At an odometer reading of **91665 km** the commission recorded: gearbox — precise gear engagement, noise gone; transfer case — noise and vibration gone; front and rear axle — noise gone; engine — noise and vibration decreased, engine traction and throttle response improved, oil pressure and idle speed rose, compression across the cylinders after treatment: **11.4 | 11.5 | 11.5 | 11**. In a separate entry dated **20.12.2002**: an additional treatment of the rear axle with the gel for gearboxes and final drives was carried out, the noise at **40-60 km/h** disappeared. Before the treatment the 3rd and 5th gears jumped out while driving, and the most worn cylinder held **9** against **10** on the others — that cylinder gave the largest gain: the restored sealing brought all cylinders up to one level, and with it traction and smooth engine running returned.



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The results relate to a VAZ-21310 passenger car in regular service and to the treatment of its engine and driveline units with XADO revitalizant gels; on other machinery and under other operating conditions the figures may differ. The original report with signatures and stamps is published in full and available for download.