



REAR AXLE FINAL DRIVE TREATMENT REPORT DATED 03.09.2002

Rear axle final drive VAZ-2107: whine eliminated no teardown, no repair

JSC M-Stroy · the treatment under contract was performed by the plant's chief mechanic · the report was approved by V. M. Vasiliev, Technical Director of JSC M-Stroy, and I. V. Pavlov, Director of LLC Arktik-Avto

Murmansk, Russia · report dated 03.09.2002 · two stamps, four signatures

PRODUCT	TREATED UNIT	DOCUMENT TYPE
XADO revitalizant gel for gearboxes and final drives · two treatments, one tube for each	Rear axle final drive VAZ-2107 passenger car in ordinary service	Treatment report with signatures and stamps of two organizations

VEHICLE	ODOMETER AT START OF WORK	WHAT WAS ASSESSED
VAZ-2107 passenger car, rear axle final drive	138 652 km	Axle whine while driving across the speed ranges

The treatment was carried out in two stages owing to heavy wear of the unit — one tube of XADO revitalizant gel for gearboxes and final drives per stage.

Key result

40-80 km/h

speed band with axle whine closed by two treatments

Rear axle whine by treatment stage

STAGE	RESULT PER THE REPORT
Condition before treatment	Heavy wear of the unit; axle whine at 40-80 km/h
After the 1st treatment	"Axle whine at 60-80 km/h stopped"
After the 2nd treatment	"Axle whine at 40-60 km/h stopped"
Outcome of the two treatments	The initial whine band of 40-80 km/h was closed in full

Assessed by ear while driving the car at the same speed ranges before and after each treatment; noise level and gear mesh backlash were not measured.

Report conclusion

The report of JSC M-Stroy records: "The final drive was treated in two stages, owing to heavy wear... the work was carried out at an odometer reading of **138652 km**". Then stage by stage: "The 1st treatment was carried out with one tube of XADO gel for gearboxes and final drives, in accordance with the treatment procedure. Result: axle whine at **60-80 km/h** stopped"; "The 2nd treatment was carried out with one tube of XADO gel... Result: axle whine at **40-60 km/h** stopped". The car arrived for treatment with whine across the whole **40-80 km/h** band — the two treatments closed it in full. The axle was not disassembled and no parts were replaced: the gel is added to the standard oil, and the tooth geometry is restored on the unit while it runs.

XADO

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The results refer to the rear axle final drive of a VAZ-2107 passenger car with about 139,000 km on the odometer; on other units and with a different condition of the assembly the figures may differ. The original report with signatures and stamps is published in full and available for download.