

TWO TECHNICAL REPORTS ON ENGINE PARAMETER MEASUREMENTS · DECEMBER 2000 — FEBRUARY 2001

KAMAZ and MAZ engines: fuel consumption fell on both fleet trucks

Ukrelektromash JSC, transport shop · approved by: Technical Director F. F. Laptsevich · work performed by: XADO LLC

Kharkiv, Ukraine · treatment — December 2000 · reports dated 06.02.2001

PRODUCT

XADO technology®
restorative repair of the engine,
carried out in December 2000

TEST OBJECT

Truck engines
KAMAZ, reg. no. 03-08 KhA ·
MAZ, reg. no. 58-84 KhAKh

DOCUMENT TYPE

Two technical reports
on engine operating
parameter measurements
approved by the customer,
stamped by both parties

VEHICLE	REG. NUMBER	UNIT	WHAT WAS MEASURED	REPORT DATE
KAMAZ truck	03-08 KhA	internal combustion engine	fuel consumption	06.02.2001
MAZ truck	58-84 KhAKh	internal combustion engine	fuel consumption	06.02.2001

Both vehicles belong to the transport shop of Ukrelektromash JSC; the treatment was carried out in a single cycle, and the before and after measurements were taken by the same method.

Key result

↑ **75-82 s**

engine running time on a 500 g fuel dose, 6 min 10 s – 6 min 30 s → 7 min 25 s – 7 min 52 s

Engine running time on a single fuel dose — 500 g, 1000 rpm, 40 °C

VEHICLE	BEFORE TREATMENT	AFTER TREATMENT	CHANGE	ECONOMIC EFFECT PER REPORT
KAMAZ, reg. no. 03-08 KhA	6 min 30 s	7 min 52 s	+1 min 22 s	21.02 %
MAZ, reg. no. 58-84 KhAKh	6 min 10 s	7 min 25 s	+1 min 15 s	20.27 %

Timing was taken on a measured dose of 500 g of fuel at 1000 rpm and a temperature of 40 °C — the method was identical on both vehicles; the last column is quoted from the conclusions of the reports themselves.

Conclusions of the reports

Both reports were approved by the Technical Director of Ukrelektromash JSC and certified with the stamps of the customer and the contractor. The commission recorded: for the KAMAZ truck — «The economic effect amounted to **21.02 %**», for the MAZ truck — «The economic effect amounted to **20.27 %**». Behind both wordings lies one and the same measured fact: after the restorative repair of the engine using XADO technology®, the engine works through a measured dose of **500 g** of fuel **1 min 15 s-1 min 22 s** longer than before the treatment — at the same mode of **1000 rpm** and at the same temperature of **40 °C**. In other words, on the same amount of fuel the engine runs longer: the hourly consumption at this mode decreased. The result was repeated on two trucks of different makes, treated in a single cycle in December 2000 — and this is what sets it apart from a single lucky measurement.

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The results relate to the engines of the KAMAZ and MAZ trucks of the transport shop of Ukrelektromash JSC; the measurements were taken at 1000 rpm and a temperature of 40 °C, and under other operating modes and conditions the figures may differ. The originals of both technical reports dated 06.02.2001, with signatures and stamps, are published in full and available for download.