

CLASSIC TRUCK > KRAZ



ABOVE Topping the dump truck range is the KrAZ-7133C4 22-tonne payload 8x4, powered by a 330 bhp V8 diesel

armies of the USSR. YaAZ (Yaroslavl Motor Plant) also used to be known as JaAZ, and is now part of the Russian Federation's GAZ group.

Before all these ZZZZZs send you to sleep, if you read last month's *Trucking* feature about Detroit Diesel, this will really open your eyes: in 1939, General Motors granted the Soviet Union a licence to build 4-71 Series two-stroke diesels, as well as assembling them from kits supplied from the US. After World War



ABOVE Ukraine was once known as the breadbasket of Europe. The KrAZ-6511C4 'Caravan grain road train' has an operating gross of 46 tonnes

II ended, the Soviets put a slightly modified version – dubbed the YaMZ-204 – into production. When you've got your hands on a good thing, you want more, don't you? The Reds certainly thought so, and they copied the GM/Detroit's six-inline 6-71 two-stroke diesel and manufactured it as the YaAZ-206.

With outputs of 165 bhp, 200 bhp and 205 bhp, production was subsequently gifted to KrAZ. The 6-71/YaMZ-206 remained in production, powering the Ukrainian's three-axle types (including dumpers and logging tractors for the civilian market) until 1967, when it was replaced by a four-stroke V8.

The first truck built by Kremenchug Motor Vehicle Plant was the KrAZ-222; a 10-tonne 6x4 dumper identical to that previously built by YaAZ. The

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By Ed Burrows

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YaAZ series of three-axle bonneted designs was undoubtedly influenced by US trucks supplied in large numbers to the USSR during WWII. In general appearance, the vehicle which first-generation YaAZ and KrAZ trucks most closely resembled is the Reo 28SX tank transporter tractor; one of the two main US heavy prime movers

operated by the Soviets. Around 200 Reo 28SX 7.5-ton rated 6x4s were supplied through the wartime US Government Lend-Lease Act. The Reo 28SXs were later supplemented by 300 of the more familiar - visually similar, though neater - classic Diamond T 980. Amazingly, under the Lend-Lease programme, the US

supplied Soviet armed forces with over 400,000 trucks. A key delivery route was the so-called 'Persian Corridor', which ran 865 miles north from Iranian ports on the Persian Gulf coast to Soviet Azerbaijan. (Aid even included US government buying a complete tyre factory from Ford, and crating and shipping the machinery to Russia. It had the capacity to produce a million truck tyres a year. The US also shipped an oil refinery.)

Until the ZIL and MAZ 8x8s appeared in the 1960s, the 6x6 KrAZ-214 was the largest truck in service with Soviet bloc armed forces. It was basically a KrAZ-222 6x4 with the chassis ride height raised to accommodate the driven front axle's differential. Robust, simple and functional, the seven-tonne rated

LEFT The 21-tonne gww KrAZ-K12.2 vacuum street sweeper is one of a variety of models supplied as a complete unit



## BIG NUMBERS

Hurt by the recession but nelped by the present conflict, KrAZ delivered its 800,000th truck in 2006. It exports to Thailand, Iraq and elsewhere - and has been operating an assembly plant in Russia.

LEFT With YaMZ, Cummins and Deutz engine options of up to 400 bhp, KrAZ-6322 roles include multiple rocket

BELOW Typifying current KrAZ high-mobility tactical trucks, the 12-tonne capacity KrAZ-6322 is spec'd to operate at temperatures from -50 to +60 degrees Celsius

KrAZ-214 departed from convention in one major respect; drive from the transfer case was taken forward to the front axle and rearwards by a single prop shaft to the differential of lead rear-axle and a parallel three-section shaft system to the back axle diff.

The -214's engine was the twostroke YaAZ-206 (GM Detroit 6-71 clone), which by this time was being manufactured by KrAZ. The gearbox was a five-speed; the transfer box had two ratios. In 1963, four years into production, the KrAZ-214B model was introduced. Hydraulic shock absorbers were added to the front and rear semielliptics suspension. Electrics were also changed, from 12 to 24 volts. Further development saw the twostroke 'six' replaced by a four-stroke V8, the 14.9-litre YaMZ-238. Initially

A 16-tonne gross 4x4 available with up to

370 bhp, the KrAZ-5233BE is designed for rapid

producing 215 bhp, in 1966 this was upped to 240 bhp.

## Moving up

The uprated engine powered what to Western eyes is probably the most familiar iteration of the series: the 7.5-ton payload rated KrAZ-255B. Introduced in 1965, it remained in production - together with truck, artillery tractor, bridging systems transporter, crane and other

variants - until 1979.

The KrAZ-255B 6x6 was novel in being the first

volume-produced tactical truck with wide-section, big contact patch allterrain tyres. Like the original KrAZ-214, the -255B had a driver-controlled central tyre pressure regulation system. The range of adjustment was between 14.5 psi (1 bar) and 50.7 psi (3.5 bar). Over snow or soft ground, the lowest setting permitted the KrAZ-255B to travel at a maximum speed of 15 kmh for distances of up to 5 km. Diff locks were supplemented by a suspension locking mechanism.

Wearing the Belaz badge - Belaz is actually a quite different

BELOW in 2014, the H27.3EX 27 was announced; an all-new engine



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in the mid-1990s - and to some of its civilian models. The KrAZ-260 featured an eight-speed main gearbox and other specification improvements. The engine was a turbocharged V8 developing 288 bhp supplied by YaMZ

KrAZ's current military range includes bonneted and cabover 6x6 and 4x4 trucks and tractors with YaMZ, Cummins or Deutz engines up to 400 bhp, recently introduced mine-resistant armour-protected V-hull monocoque troop carriers, and patrol and special mission vehicles developed in association with Canada's Streit Group.

While past and present bonneted KrAZ heavy trucks have been evolutionary variations on a theme, there was a significant departure in the second half of the 1980s, KrAZ-6E63161/-7E63161 development prototypes were 8x8s with the cab located in front of the engine.

With a 450 bhp, a 15.7-tonne kerb weight and cargo bodies, they were designed to haul a 15-tonne drawbar trailer. The collapse of the Soviet Union resulted in the project being cancelled. Interestingly, last year the configuration reappeared: KrAZ announced the 27-tonne carrying capacity H27.3EX 8x8 crane carrier and heavy equipment transporter with a 400 bhp power unit. Promoted as part of the civilian range, this might conceal its real purpose.