'ZIL' MODEL MOTOR VEHICLES

COUNTRY: USSR

TECHNICAL TRANSLATION

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'ZIL' MODEL MOTOR VEHICLES

by

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"...To provide the national economy with improved automotive vehicles that meet modern technical-economic requirements, the production of the tri-axle truck 'ZIL-131' and the new high performance panel truck 'ZIL-114' will be begun. Preparations will also be made for the output of a new, large-capacity truck — the 'ZIL-133'."

(From the socialist obligations of the collective of the I. A. Likhachev Automotive Plant).

The Directives issued by the 23rd CPSU Congress on the five-year plan for national economic development pose, inter alia, the task of increasing the output of high-roadability and high-capacity automotive vehicles. Implementing the party's resolutions, Moscow's automotive vehicle builders have produced such machines.

TRI-AXLE CROSS-COUNTRY VEHICLE "ZIL-131"

Its load capacity ranges from 3.5 to 5 tons. This capacity exceeds that of its predecessor, the "ZIL-157K," by 1 ton. The "ZIL-131" is equipped with a V-8, 150 horsepower gasoline motor with a top speed of 80 kilometers an hour. A fully loaded "ZIL-157K" had a top speed of 65 kilometers an hour.

The designers were concerned about the operator's comfort and about traffic safety. The cabin is equipped with a broad panoramic bent windshield that substantially improves the over-all view of a locality. The steering device is equipped with a hydraulic booster that facilitates handling. The brake system is more reliable.

Of major significance for the vehicle's operation is the standardization of parts and assemblies. Up to 60 percent of the parts and assemblies that are available in mass quantities and were used on the bi-axle "ZIL-130" are utilizable on the "ZIL-131" truck. This facilitates both the repair of
the vehicle and the supply of spare parts to automotive repair enterprises. The new truck has another important feature. Its tires are equipped with a special device for pumping air. Even if a tire is punctured by a nail, the vehicle can continue for an additional 90 to 100 kilometers without slowing down. The mechanism for pumping up the tires makes the "ZIL-131" truck a cross-country vehicle. This truck can move readily over sand and freely over swamp land as well as over virgin land covered with a half meter of snow. It can surmount hills with slopes of up to 25 to 30 degrees and cross fords of up to 150-centimeter depth. This vehicle is indispensable to the national economy. It especially pleases the workers of rural areas.

The workers in automotive plants have a new task: they must prepare for the production of the tri-axle, large-capacity truck, the "ZIL-133." These vehicles will have a load capacity of 6 to 8 tons and operate with a trailer; they will be capable of hauling loads weighing up to 16 to 18 tons.

The I. A. Likhachev Automotive Vehicle Plant is a specialized enterprise. Its basic output consists of bi- and tri-axle trucks. It also produces automobiles. These are high-class cars. The limousine "ZIL-111" is well known to the reader. The chassis of this vehicle is used for the microbus (panel truck) "ZIL-111" — "Yunost" (Youth). Recently, at an international rally in France, this representative of Soviet low gas-consuming automotive buses was judged best. It won first place and a prize of the President of the French Republic.

Now the "ZIL-114," a new, high-class vehicle, is replacing the "ZIL-111." The new model surpasses its predecessor in all parameters. The vehicle is equipped with an 8-cylinder, 300 horsepower engine and an automatic hydrodynamic transmission. The brakes are separate for the front and rear wheels. The steering wheel's height and angle of inclination can be adjusted, which is very convenient for the operators. The vehicle is equipped with tubeless, low-pressure tires. The bodies of the "ZIL-114" have severe, beautiful, and modern shapes. The hood tilts toward the vehicle's front. The side windows are curved. An electric drive enables one to adjust the front seats. The "ZIL-114" is equipped with heating and cooling units. They can be turned on individually, at one's desire, for the front and rear sections. In cold weather warm air is blown upon the cab's windows, which prevents their freezing. The vehicle is capable of developing a speed of up to 190 kilometers an hour. The height of the "ZIL-114" is below that of the "ZIL-111," by 130 millimeters. The new model is somewhat longer and lighter than its predecessor.

The "ZIL" make is known throughout the world. Consumers give the highest possible mark to the products of the I. A. Likhachev plants. It is
not for nothing that many of the plant's articles have earned golden medals at international exhibitions at Leipzig and Brussels. Similarly, it is not for nothing that the makers of these articles have been awarded dozens of gold and silver medals of the Exhibition of the Accomplishments of the USSR National Economy.
The five-year plan for national economic development calls for increasing the output of high-roadability and high-capacity motor vehicles. Several new machines are described, including the ZIL-131 tri-axle crosscountry vehicle, the ZIL-133 tri-axle large-capacity truck, the ZIL-111 panel truck based on the ZIL-111 limousine, and the ZIL-114 airconditioned automobile.
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