

Liebherr is exhibiting its large IIIB-generation Wheel Loaders at the 2013 Bauma

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At the 2013 Bauma, Liebherr is presenting its new IIIB generation of large machines for the first time to users worldwide. These wheel loaders were first shown to a wider public at the Intermat in April 2012.

Higher performance, enhanced stability

The L 550 and L 556 have a redesigned engine compartment with the diesel engine installed transversely. This gives them an even more compact layout, and makes all the principal maintenance points accessible from ground level. The engine output of the L 576 and L 580 models has been increased, and all the large new-generation machines have an optimised tipping load limit that further improves productivity and stability.

In addition to the Z-bar linkage for standard operating tasks, Liebherr supplies industrial lift arm. No other manufacturer offers both lift arm versions in every machine category at no extra cost.

The geometry of the industrial lift arm has been specially chosen for high load moments and ample force in the upper lifting area. As a result, exceptionally heavy loads can be handled. The pattern of movement is parallel over the entire lifting range. The industrial lift has a hydraulic quick coupler as standard equipment.

LPE driveline boosts performance and economy

For the IIIB generation, Liebherr continues to use hydrostatic drive concept together with another Liebherr development: Liebherr Power Efficiency (LPE). This is an electronic mapped-characteristic control system that increases the machine's handling power and keeps fuel consumption to a minimum. Compared with other machines in similar size categories, the innovative driveline concept cuts fuel consumption by as much as 25%. Less fuel is needed for the same performance, and tyre and brake wear are reduced.

The LPE system influences engine management pro-actively: the machine's software receives an electronic accelerator-pedal position signal and computes the most efficient way of carrying out the operator's wishes. LPE optimises interaction of the driveline components in terms of swiftness and sensitive control of the machine.

The new-generation diesel engines are now even more environmentally friendly, with many other improvements, too: precision common-rail fuel injection optimises the combustion process and reduces pollutant emissions. Exhaust emission control is by means of a diesel oxidating catalytic converter combined with a diesel particulate filter. In most situations, this filter can be actively regenerated by burning off deposits during operation of the machine, and the task in hand continued without interruption.

Straightforward maintenance, ease of control

Cleaning and servicing are easier than ever before on the new IIIB generation of wheel loaders. The operator can reach the maintenance points for the principal components from ground level. Cleaning and maintenance work has been reduced to a minimum: the radiator assembly is again installed directly behind the cab, where air with a low dust content can be drawn in.

The operator will appreciate the functional efficient, ergonomically correct cab layout. The operator's seat with horizontal side-to-side suspension, available as an optional extra helps reduce operator fatigue. New cab mounts have been developed to lower the level of noise and vibration inside the cab. As far as outside noise emissions (sound power levels) are concerned, Liebherr is traditionally among the leaders; its machines operate well below the permitted limits.

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