



LOWER COSTS BY BOOSTING EFFICIENCY

The largest contributor to the operating cost of hydraulic mining shovels is fuel. The Cat 6030 offers a number of features that contribute to overall efficiency — reducing fuel usage and lowering overall operating costs.

INTELLIGENT OPERATION

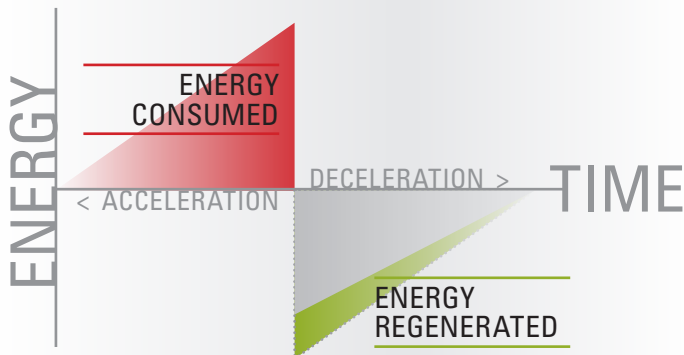
The intelligent pump managing system contributes to lower costs by improving component life while reducing fuel consumption. The system continuously evaluates actual engine and hydraulic operating values against set values and adjusts pump output accordingly. This results in efficient use of the engine for greater productivity, less energy and fuel consumption, and reduced component wear.



CAPTURED ENERGY

The Closed-loop Swing System delivers faster cycle times and improved energy efficiency, while also generating less heat. Kinetic energy captured during the swing motion is fed back into the system during deceleration, providing more power to drive the main and auxiliary pumps. The system:

- + Uses pumps to decelerate
- + Uses energy instantaneously
- + Creates less heat
- + Lowers engine load factor
- + Reduces fuel consumption



PROTECTING AND EXTENDING THE LIFE OF HYDRAULIC COMPONENTS

OPTIMIZED COOLING

The Independent Oil Cooling system is a more efficient means of cooling that protects and extends the life of hydraulic components. The system is independent of return oil, achieving efficiency through the utilization of dedicated pumps that provide cooling capacity as needed, whether the engine is idling or under load. That means optimum oil temperature is being maintained, even while your operator waits for the next truck to load. Competitive hydraulic shovels provide cooling only when the machine is working and the engine is under load. Additional efficiency is achieved via our thermostatically controlled radiator fan speed.

- + Independent from return oil / machine movement
- + Continuous cooling keeps oil at optimal temperature
- + Temperature controlled