

Bingham Canyon Mine haul truck fact sheet

December 2012

Fleet

- Bingham Canyon Mine has 88 haul trucks that transport mined ore (metal-bearing rock) and waste (non-metal bearing rock).
- The fleet includes 240-ton capacity to 320-ton capacity haul trucks. The 320-ton capacity haul trucks are some of the world's largest vehicles.
- An average haul truck is 24 feet high, 29 feet wide and 51 feet long.
- Each haul truck has six giant tires that are more than 12.5 feet tall. Each tire lasts approximately nine months.
- Haul truck engines range from 2,300 to 3,500 horsepower.
- When fully loaded, a haul truck weighs more than 1.1 million pounds.
- The size of the haul trucks at the mine has gradually increased over the last few decades to improve efficiency and technology:
 - 1980s: 190-ton capacity haul trucks in operation
 - 1990s: 240-ton capacity haul trucks incorporated in the fleet
 - Past decade: 320-ton haul trucks introduced at the mine
- The mine is adding 22 new haul trucks to its fleet over the next two years to execute the pit expansion.
- New truck orders take six months. The haul trucks are shipped to the mine in pieces and assembled onsite, and it takes seven trailers to deliver these pieces. Each haul truck takes about two weeks to assemble once they arrive.
- Kennecott also has seven haul-sized water trucks with 50,000-gallon tanks. These trucks spray water onto haul roads to reduce dust.

Environmental protection

- New haul trucks are built with Tier 2 engines which reduce tailpipe emissions by half.
- The new Tier 2 engines use less fuel, while achieving the same horsepower as the Tier 1 engines.
- Operators adhere to a strict idle management program. Haul trucks are shut off anytime they are not in production to help reduce emissions and fuel consumption.
- The newer haul trucks have systems that lower the engine's RPMs when the truck is coasting or going downhill to conserve fuel.

Safety

- Kennecott and Rio Tinto continually work together with the truck manufacturer's to customize and improve the safety designs for existing trucks and new haul trucks.
- Each haul truck is equipped with a GPS unit. The location of each haul truck is tracked from a central location at the mine.
- The cab is designed to reduce noise to protect the operator's hearing. New materials are being incorporated into existing cabs to make them even quieter.
- Haul trucks are outfitted with LED headlights for improved operator visibility while reducing costs.
- Each truck has an automated fire suppression system that can also be activated by the operator.
- New systems are being incorporated into the haul trucks to warn the operator if the vehicle begins to move unintentionally, and automatically apply the brakes if needed.
- The operator's seat has an air suspension for increased comfort.
- Haul trucks are monitored wirelessly 24 hours a day, seven days a week for equipment malfunction and performance issues. This early warning system identifies issues before components fail and helps to keep equipment running in optimal condition.