



## Environmentally acceptable lubricants

### Make meaningful progress in sustainability

Your job is big, and so is your responsibility. If you're looking to elevate your sustainability practices, environmentally acceptable lubricants (EALs) represent measurable progress. Specially formulated for mining excavators like electric rope shovels, hydraulic excavators and drag lines, Komatsu's EALs are designed to help neutralize the potential adverse impact of oils and greases on the environment without sacrificing performance.



- Biodegradable\*
- Non-bioaccumulative\*
- Non-toxic\*
- Renewable\*\*

*\* Based on 2013 EPA VGP standards*

*\*\* Derived from renewable resources, such as plant-based oils*

# Take a big leap toward sustainability

Open gear lubricants (OGLs) and multipurpose greases help drive shovel, dragline, haul truck and drill performance in challenging environments. They're critical to operating reliably, productively and with fuel efficiency. But they can be less environmentally sensitive and can require expensive cleanup efforts.

Now, you have an opportunity to promote environmentally conscious practices without sacrificing machine performance with Komatsu's environmentally acceptable lubricants (EALs). They are formulated to meet rigorous standards set by the U.S. Environmental Protection Agency :

- **Biodegradability:** Can be broken down in the environment by microorganisms and converted to something less toxic\*
- **Non-bioaccumulative:** Contain substances unlikely to accumulate in the bodies of organisms exposed to them, and in the environment\*
- **Non-toxic:** More sensitive to plant, animal and human life compared to petroleum-based options\*
- **Renewable content:** Derived from renewable resources, such as plant-based oils\*\*

*\*Based on 2013 EPA VGP standards*

*\*\*Derived from renewable resources, such as plant-based oils*

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