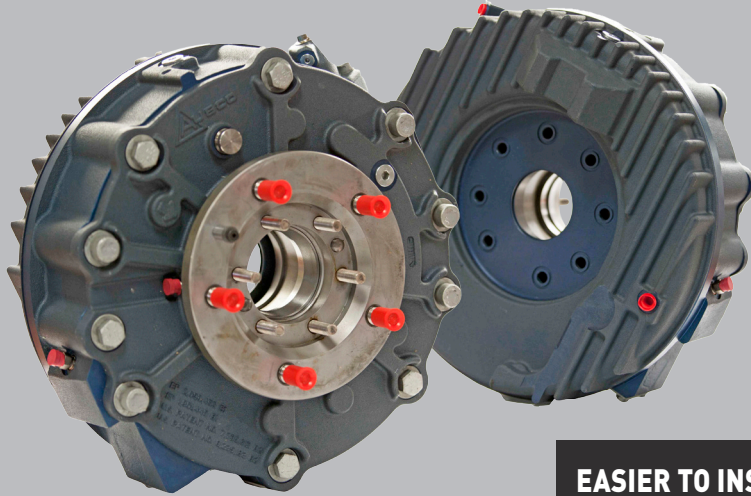


# The Ausco LC Brake

## Wet Enclosed Brakes for the Toyota Land Cruiser

**SAFER TO OPERATE • EASIER TO INSTALL & MAINTAIN • LOWER COST OF OWNERSHIP**

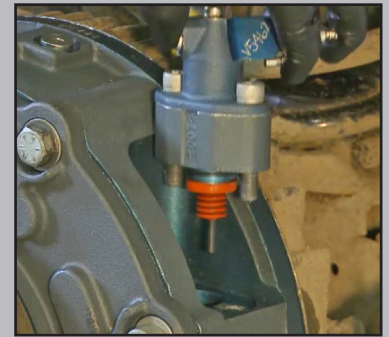


### SAFER TO OPERATE

- Spring applied parking brake - applies automatically when the engine stops running, will hold the vehicle on any mining slope
- Emergency stop capability - will safely and controllably stop the vehicle
- Enclosed wet service brake - provides smooth and safe stops
- Cooling chamber design - prevents fade, glazing, and loss of brake performance
- Safe towing - PLC controlled Premium Pump Pack allows operator to tow the vehicle safely from the cab without using a hand pump - all braking functions are available while vehicle is being towed

### EASIER TO INSTALL & MAINTAIN

- Drop-in design - no vehicle modifications required
- Uses OEM master cylinder - no need to replace the master cylinder or vacuum booster
- Lightweight aluminum construction - allows the brake to be installed without lifting assistance
- Fast and easy brake changeover - gets the vehicle back to work quickly
- Removable slave cylinder - eliminates need to re-bleed when brakes are serviced
- Premium Pump Pack fits in cab behind seat - easy to install and well-protected from the environment
- Dash panel control fits in existing radio slot - clean and simple to install



### LOWER COST OF OWNERSHIP

- Wet brake design - minimizes lining wear for long life and low maintenance costs
- Mine-proven grease barrier seals - prevents brake damage and lowers maintenance costs
- Sealed stainless steel Premium Pump Pack - protects pump kit from the environment for the ultimate in reliable, low maintenance performance
- Hard coat anodized housings are unaffected by the environment - no brake failures due to corrosion, easy to disassemble for maintenance



**Safety comes with a cost. Ours just happens to be lower.**



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# The Ausco LC Brake

## Wet Enclosed Brakes for the Toyota Land Cruiser

WORLDWIDE SUCCESS FROM THE WORLDWIDE LEADER IN OFF-HIGHWAY BRAKING

### Mining Contractor - Manitoba, Canada

Installed Ausco LC Brakes on a Land Cruiser used to carry miners down a 950 m (3000 ft) deep ramp on a 12-18% slope. After 2000 hours (8 months) without downtime for brake service, brake was like new - no corrosion, no wear, and no signs of heat damage.

A comparative analysis of hourly maintenance costs was performed and the results are staggering:

OEM Brakes:	\$8.00 USD/hour
Australian Competitor's Wet Brakes:	\$4.00 USD/hour
<b>Ausco LC Brakes:</b>	<b>\$0.98 USD/hour</b>

### Zinc Mine - Namibia

This location had 4 runaway Land Cruisers using OEM brakes. They put Ausco LC brakes on 2 vehicles for 5 months. The vehicle operators told Management that they feel much safer using the vehicles with the LC Brakes. The mine is now beginning a full conversion to Ausco.

### Copper Mine - Mount Isa, Australia

This mine location was using the Australian competitor's wet brakes. They were so overwhelmed by the performance of the Ausco LC Brakes that they left an entire container load of the competitor's brakes sitting unused and started buying from Ausco.

### Diamond Mine - Northwest Territories, Canada

This location operates in an extremely harsh Arctic environment. After seeing high maintenance costs on both axles with integral brakes and the Australian competitor's wet brakes, they contacted Ausco looking for a better solution. While installing the Ausco LC brakes for testing, the technicians at the site complimented Ausco on the brake design and the simple installation. Testing went well, and the mine location is now planning production with Ausco LC brakes.

### Nickel Mine - Quebec, Canada

This mine location in the northern Arctic reaches of Canada can see temperatures as low as -60°C. They are currently in production using Ausco LC Brakes with no issues.

### Zinc Mine - Ireland

This location has been servicing calipers twice a week. After more than 10,000 km of driving distance over a 5 month span, wear measurements on the Ausco LC Brakes project a 3+ year brake life between service intervals.

### Zinc Mine - Mount Isa, Australia

This mine performed their own independent evaluation of the Ausco LC Brakes. They tested the brakes for 12 months while comparing the cost of ownership versus other brake options. Amortizing the cost of the brakes over 3 years in their analysis, they concluded that the Ausco LC brakes saved \$7,500 AUD *per vehicle* annually over the OEM brakes and \$4,400 AUD *per vehicle* over the competitive Australian wet brakes. The mine is now converting their entire Land Cruiser fleet to Ausco.

### Silver Mine - Zacatecas, Mexico

An Ausco 4-wheel system has been on test since August, 2016. In a recent event, the engine on the vehicle failed and the emergency brake activated automatically, preventing a pedestrian from being run over.

### Gold Mine - Ontario, Canada

This location praised the performance and durability of the Ausco Premium Pump Pack. Typical competitive pump kits fail about every 6 months. The Ausco Premium Pump Pack "still looked like new" after 8000 hours over the course of about 2.5 years in the mine. This level of performance is not unusual for the Premium Pump Pack. Similar results have been noted in mines worldwide.

Safety comes with a cost. Ours just happens to be lower.



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