

**APPLICATION**  
Mobile Crane

# LE Solves Transmission Gear Lock Up Problem in Mobile Crane

**CUSTOMER TESTIMONIAL**  
Thermosash Commercial Limited

## CHALLENGE

Failing transmission on Tadano  
10 tonne mobile crane

## SOLUTION

Monolec® Syn Multi-Vehicle ATF  
(1150)

## RESULTS

- Resolved the problem with the transmission gear

### Customer Profile

Thermosash Commercial Limited commenced operations in Auckland, New Zealand, in June 1973 under the direction of the five founding engineers. By 1987 Thermosash was the largest commercial window and curtainwall designer, manufacturer and contracting company in New Zealand. Today, the company owns Window Engineering Consultants (a facade testing laboratory) and Woods Glass (NZ) Limited (a specialist commercial glazing operation).

The Thermosash head office and main manufacturing unit operates from Auckland's North Shore - one of the most modern operations in Australasia with state-of-the-art imported automated machinery.

### Application

Tadano 10 tonne mobile crane used for installing commercial glazing

### Challenge

The crane had a complete overhaul. During the initial test drive the transmission would not select gears correctly and the gear lock up was intermittent. The crane was booked to be shipped to the Pacific Islands for work and time was running out.

### Results

After filling the crane's transmission fluid with 21 litres of Monolec® Syn Multi-Vehicle ATF (1150), Stephen took it out for another test drive and instantly noticed that the transmission problems had gone away.

Following this success, LE lubricants are being implemented in all Thermosash equipment in Auckland, Wellington and Christchurch.

*"It would have cost approximately NZ\$10,000 to overhaul the transmission. I changed the oil, the transmission was perfect, I could not believe it". – Stephen Ray, National Plant Maintenance Manager*



## Solution

The local LE distributor recommended Monolec Syn Multi-Vehicle ATF (1150), a versatile, high performance product suitable for regular to severe-duty use in a variety of automatic transmissions.

## Other LE products used:

- Almatek® General Purpose Lubricant (1233):  
Pins and bushes, chassis points
- Wirelife® Almasol® Coating Grease (452):  
Crane wire ropes
- Monolec® Industrial Lubricant (4701):  
Mobile equipment auto lube systems
- Duolec® Vari-Purpose Gear Lubricant (1605):  
Reduction gearboxes on scissor lifts
- Duolec® Vari-Purpose Gear Lubricant (1606):  
Crane winch and swing retarders
- Monolec® Gear Lubricant (703):  
Crane axles/differentials
- All Purpose Hydraulic Oil (4933):  
Hydraulics
- Monolec Ultra® Engine Oil (8800):  
Engine oil
- Pyroshield® Syn Open Gear Grease (5100) aerosol:  
Open gears and winch chains
- Xpel™ Oil Storage Containers

*Thank you to Stephen Ray, National Plant Maintenance Manager, and Chris Unsworth, LE NZ lubrication consultant (pictured), for providing the information used in this report.*



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