



Customer Testimonial

Kawerau District Council – Waste Water Treatment Plant

Duolec® Vari-Purpose Gear Lubricant (LE1607)

- Reduced Oil Consumption from 100 Litres annually to 5 Litres annually
- Reduced Maintenance Hours, Parts & Oil
- No longer any mess from emulsified oil to clean up & dispose of.

Nature of business:

Kawerau is a mill town in the heart of the Eastern Bay of Plenty in New Zealand's North Island. The area's local body governance is provided by the Kawerau District Council and the Council's waste water treatment plant takes responsibility for the treatment of all the towns domestic waste. At the plant, the primary solids are removed via two 1.5 metre diameter Contra Shears.

The Contra Shear is a New Zealand development that, basically, consists of a rotating, chain driven, horizontal cylinder which is perforated to allow fluids to pass through but retain the solids.



Application:

Contra Shear, 1.5 meter diameter – Filtering the solids from the waste water.

Challenge:

Back in January 2000, the main problem was the corrosive environment of Hydrogen-Sulphide and water. This caused the drive chains to corrode and seize. Failures were a common occurrence, even with the chains being lubricated automatically at a rate of 2 Litres per week. This was causing great concern to Wayne Brooking, the supervisor of the Waste Water Plant.



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LE Solution: Back then, LE recommended to use LE608 Almasol Gear Oil. This has been replaced with LE1607 Duolec Vari-Purpose Gear Oil. LE608 was recommended because of its ability to cling to the metal of the chains and not wash off. It had been used numerous times in similar applications on other Contra-Shears with great success.



Results: Various application rates and intervals were tried before settling on 150ml applied to each chain once every 3rd or 4th week. It was over 24 months before the next purchase of oil was required. Presenting a huge saving in oil costs. Oil consumption dropped from 100 Litres annually to just 5 Litres annually.

The chain now runs free from rust with no seizures. There is also no longer any mess from emulsified oil to clean up and dispose of. With the reduction in maintenance hours, replacement parts & Oil, Wayne has no doubt at all about the cost savings gained by the Kawerau District Council with his decision to use Lubrication Engineers Products.

“It wouldn’t even wash off”

Thank you to Wayne Brooking, Waterworks and Waste Water Supervisor



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