



## CASE STUDY 20060601S

**I (Improvement) X 8 = \$\$\$**

### Better Lubricant Equals Better Tool Performance

**Application:** A manufacturer of clamps, rings, and couplings was not only able to eliminate coolant disposal for a tapping application, but produced nearly eight times as many parts using the same tap.

**Comments:** There are benefits to using a better lubricant that are not always reflected in the cost of the lubricant. In the case below the cost of oil per piece is slightly higher for the 2210, but the resultant benefits are exponential. Almost eight times the number of parts per tap is produced. Downtime for tool changing is reduced by 7 changes per 25,424 parts. There is no longer any waste disposal cost for this particular process when the Coolube® 2210EP is used since TLL (total loss lubrication) occurs, i.e. all of the lubricant is consumed in the process.

#### Two Outlet Coolubricator

##### **DT01 Oil Test Results**

##### **Previous data from HD71 Kool Kut Oil**

Pieces produced per tap	= 3,500
Cost of Tap	= \$8.71 ea.
Pieces Produced per 3 weeks	= 46,560
Oil Used per 3 weeks	= 64 oz.
Cost of HD71 oil	= 53.54 per 5 gal.
Oil used per piece	= .0014 oz.
Cost of oil per piece	= \$ .000115

##### **Data from 2210 EP Coolube**

Pieces produced per tap	= 25,424
Cost of Tap	= \$8.71 ea.
Oil Used per Tap	= 5.25 oz.
Cost of 2210 EP oil	= \$78.00 per one gal.
Oil used per piece	= .0002 oz.
Cost of oil per piece	= .000126

##### **Other related data**

Price of mist applicator to apply 2210 EP oil = \$990.00  
No waste water / oil to be disposed of by Safety Clean when using 2210EP oil  
Less man hours / down time from changing taps when using 2210 EP oil