



LUBRICANT COST ANALYSIS

Wood Pellet Mill

Certified Lab's Objective:

Provide a performance grade grease that would reduce excessive bearing replacement, shaft & housing repair, and grease consumption for their 4 pellet mills. The following cost savings projection refers to preliminary work carried out in order to determine the acceptable level of lubrication cycles.

Performance Assessment: Each grease cycle consumes 20.4 cc of grease (0.69 oz). The cost of the Mobil Synthetic is \$4.75/lb. The cost of Certified Labs Premalube Xtreme Green is \$4.12/lb.

The Mobil Synthetic grease required 120 seconds between cycles while Certified Labs Premalube Xtreme Green was able to cycle every 220 seconds. Preliminary work suggests that Premalube Xtreme Green can safely be extended to cycling 240 and 300 seconds. Each mill requires greasing. There are 4 mills operating. Extending the grease cycle to every 300 seconds would provide a savings of \$139,795.00 annually.

Grease	Seconds Between Cycles	Cycles/Day	lbs/Day (per Mill)	Total lbs/Day (4 Mills)	Total Annual Pounds (7 Days/Wk, 52 Weeks / Yr)	Annual Cost	Annual Savings
Mobil Synthetic	120	720	31	124	45,260	\$214,985.00	0
Premalube Xtreme Green	220	392	17	68	24,820	\$102,258.40	\$112,726.60
Premalube Xtreme Green	240	360	15.5	62	22,630	\$93,235.60	\$121,749.40
Premalube Xtreme Green	300	288	12.5	50	18,250	\$75,190.00	\$139,795.00

Additional Cost Savings

Waste Reduction

There are 113 drums of Mobil Synthetic used annually. Five pounds per drum of Mobil Synthetic are wasted after each use, equaling 565 pounds annually. At \$4.75/lb = **\$2,683.75** is lost annually. Certified Labs will provide grease containers which do not produce waste for a savings of \$2,683.75.

ANNUAL SAVINGS

Mill Grease.....\$139,795.00
 Waste Reduction.....\$2,683.75
Total Savings.....\$142,478.75

