

KILN CHAIN LUBRICATION COST SAVINGS

Gypsum manufacturer USA

Kiln chain lubrication Equipment

Castrol LubeCon Series 525

FIRST YEAR SAVINGS: \$109,364.62



THE SITUATION

This drywall facility was using a considerable amount of lubricant per month to lubricate their 12 deck kiln. It was a challenge to get the lubricant to the critical areas of the chain links. Oil was not hitting the chain links and was creating a mess on the kiln structure and floor area.

BEFORE

- A monthly spend of \$11,088.00 in lubrication was required to ensure the proper lubrication of the chains. The floor area kiln structure required continuous cleaning. Off cycles could not be extended past 14.

AFTER

- A 65% reduction of lubrication was realized after the LubeCon equipment was installed. This amounted to a monthly spend of \$3,845.78. The floor area and kiln structure are now both clean. Non-lubrication cycles have been extended out to 20 with no increase in amperage draw.
- Reduced VOC'S

THE SOLUTION

- Castrol designed and developed application specific lubrication equipment that would prevent chain movement and lubricate the chain links at the same time. Doing this would make sure that every drop of chain lubricant would hit the intended target with no missed ejections or waste.
- Two prototype chain sleds were built, installed and tested on two decks for 6 months to evaluate and measure the success.
- Two different Castrol chain lubricants were tested side by side with the new sleds to see which oil could best lubricate the chains and reduce the amount of lubrication cycles.
- It was determined that Castrol LubeCon Series 525 provided the maximum amount of protection and could lubricate the chains with fewer on cycles.
- All 12 decks have been upgraded to incorporate the newly designed lubrication hardware.

- The right product was determined for the application.
- The right equipment was designed and installed on the kiln.
- New lube tubes were utilized to minimize making tube adjustments.
- LubeCon equipment trials and lubricant tests ensured that the kiln chains were lubricated the best way possible.

IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.



Castrol chain lubricant and equipment

Cost saving documentation

BEFORE

- \$11,088.00 per month in lubricant spend.
- Yearly spend: \$133,056.00

AFTER

- A 65% reduction of lubricant spend per month.
- Yearly spend: \$46,149.36

FIRST YEAR COST SAVINGS OF: \$86,906.62

EQUIPMENT VALUE PROVIDED TO CUSTOMER IN FIRST YEAR: \$22,458.00

TOTAL FIRST YEAR SAVINGS: \$ 109,364.62

PROJECTED THREE YEAR SAVINGS IN LUBRICANT SPEND: \$283,177.92

The new equipment and installation costs were waived with a signed agreement for a three year commitment to use Castrol branded chain lubricants on the kiln chains.

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