

**607 ALMASOL VARI PURPOSE GEAR LUBRICANT**  
**SAN MIGUEL PACKAGING SPECIALIST, INC.**  
**METAL CLOSURE LITHOGRAPHY PLANT**  
*Canlubang, Laguna*  
*Refenhauer PVC Tape Bi-Truder Gearboxes*

**CUSTOMER TESTIMONIALS**



**Customer Profile**

San Miguel Metal Closure Lithography Plant in Canlubang Laguna is one of the oldest plant of San Miguel Corp. It Manufactures aluminum steel and PVC-tape, a material needed for bottle caps.

**Application**

They used two Refenhauer PVC Tape Bi-Truder Gearbox to drive their extruder.

**Area of Concern**

While using a synthetic gear oil SAE 90, the gearbox was running at high temperature. The plant is in production 24 hours per day and five days per week. The gear oil used was being changed every six months. The extruder gearbox is located in a dusty and wet environment.



**LE Solution**

After conducting seminar on Industrial Lubrication, Engr. Cresencio R. Aligue, JR. of Machinery Maintenance Engineering agreed to try LE 607 Almasol Vari Purpose Gear Lubricant in one of their gearboxes. LE's Oil Analysis Program was used to monitor the condition of the oil and wear particles. Gearbox working temperature was also included in the monitoring.

| Refenhauer PVC Tape Bi-Truder Gearbox |                          |                         |
|---------------------------------------|--------------------------|-------------------------|
|                                       | <i>Before Conversion</i> | <i>After Conversion</i> |
| Line 1                                | 50-55°C                  | 40-45°C                 |
| Line 2                                | 55-65°C                  | 45-52°C                 |
| Drain Interval                        | 6 months                 | 1 year                  |

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**LE LUBRICANTS, INC.**

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### ***Customer Cost Savings***

After converting to LE 607 Almasol Vari Purpose Gear Lubricant, operating temperature were reduced to 10°C, drain intervals were extended to one year and the results of the periodic oil analysis showed that all values were following trends and there were no indication of any mechanical problems, significant wear and abnormal operating condition.

