

605 ALMASOL[®] VARI-PURPOSE GEAR LUBRICANT

NSO Resins, Greenwood, SC

Davis Standard 96mm, 69mm Extruder • SIC 2821 Plastics Materials & Resins

**Total cost savings of \$10,000
in maintenance, oil costs, disposal costs and production downtime.**

- ◆ *Dropped oil temperature 50° F*
- ◆ *Safely extended drain interval from 6 months to 4+ years*
- ◆ *Saved over 50 hours of labor downtime in 4 years due to extending drain interval*
- ◆ *Reduced oil purchase/use by 14 drums of oil (700 gallons in 4 years)*
- ◆ *Saved \$1950.00 on waste oil disposal cost*
- ◆ *Saved over 48 hours of operating downtime in 4 years by eliminating overheating in July and August*

CUSTOMER PROFILE

NSO Resins is located in Greenwood, South Carolina. They specialize in nylon resins. They have been an LE customer since May, 1999.

APPLICATION

NSO Resins uses a Davis Standard 96mm Extruder and a 69mm Twin Screw Extruder for producing plastic pellets.

AREA OF CONCERN

NSO Resin's Maintenance Manager Jim Buist wanted to safely extend his drain interval, reduce the temperature and maintenance downtime on his equipment. He was experiencing high heat and costly downtime when using a commercial grade oil.



LE SOLUTION

LE Lubrication Consultant Mark D. Jones recommended LE's ISO 320, 605 ALMASOL[®] Vari-Purpose Gear Lubricant for the Davis Standard Extruders and recommended Lubrication Engineers Oil Analysis Program (LEAP) to safely extend oil drains, and monitor the condition of the oil and equipment.

CUSTOMER TESTIMONIAL

**LUBRICATION
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CUSTOMER COST SAVINGS

In 1999, Mark presented Jim the benefits of LE Lubricants and the LEAP program. Jim realized the cost savings NSO Resins could achieve in lubricant cost and equipment downtime. The normal change interval was six months on each extruder. **The oil has now been in both extruders for over four years and is still in excellent condition.** NSO has only purchased two 55 gallon drums in four years instead of the thirteen 55 gallon drums they had been purchasing with a commercial grade oil. Each extruder holds 50 gallons of oil.

Jim has saved a total of \$1950.00 in waste oil disposal cost he would have had to pay if he changed the extruders every six months. The oil temperature dropped 50⁰ F taking undue heat off the equipment and surrounding work areas. During July and August, the extruders would shut down from

the excessive summer heat and would take several hours for the extruders to come back online and start running. They have not shut down from the summer heat since using LE's 605. This is an estimated savings of 48 hours of downtime in the last four years.

The total cost savings LE lubricants have achieved are well over \$10,000 in maintenance, oil costs, disposal costs and production downtime. LE's 605 has paid for itself and the other lubricants used by the plant for the next several years.

OTHER PRODUCTS USED

- 1250 ALMASOL[®] High Temperature Lubricant in the California 100 Century Pellet Mills
- 1275 ALMAPLEX[®] Industrial Lubricant throughout the plant
- 6803 MULTILEC[®] Industrial Lubricant in Ingersol Rand Rotary Screw Compressor

We would like to thank NSO Resins Maintenance Manager Jim Buist, the maintenance team and LE Lubrication Consultant Mark D. Jones for the information provided to prepare this report.



Mark D. Jones