

**LEAP (Lubrication Engineers Analysis Program),  
Checkfluid KP Sampling Ports & Live Sampling from a Circulating System**

**ADVANCED TECHNOLOGY SERVICES, INC., Augusta, GA contract site  
SIC 7699 Repair Shops**

- \* **No longer have to spend man hours to shut down compressors to take samples**
- \* **Reduced sampling time from 4 hours to 30 minutes for 9 screw compressors**
- \* **No more tools needed to open compressors**
- \* **Eliminated potential contamination from tubes, vampire pump, and oily rags**
- \* **Better sample results due to location of the KP push button sampling valves.**
- \* **Only one lubricant technician needed to sample all 9 compressors (previously needed two)**

**CUSTOMER PROFILE**

Advanced Technology Services Inc. (ATS) has grown into a leading supplier of outsourced factory maintenance, industrial component repair and IT services for Fortune 500 companies. ATS provides a world-class workforce that can use root cause analysis and continuous improvement to craft solutions for their customer's most complex maintenance problems.

**APPLICATION**

Deborah Jacobs, Planner/Scheduler for ATS located in Augusta Georgia, wanted to reduce labor hours required to take oil samples on 9 rotary screw compressors .

**AREA OF INTEREST**

Deborah uses LEAP (Lubrication Engineers Analysis Program) to monitor the condition of the equipment and lubricants at her site. Deborah's previous oil sampling procedure was to use drop tube sampling with a vampire pump and tube. This proved to be a very messy and time consuming procedure. Sample



results varied and Deborah was not satisfied with the oil analysis reports. Additionally, this method of sampling took 15-30 minutes per compressor. It normally took two people to pull the sample. Deborah would call Marc

Brown, a Maintenance Technician, to shut down the compressors and safely pull a sample. Marc had to bring a large wrench and several rags for each compressor. The compressor rooms are extremely hot and noisy.

### **LE SOLUTION**

LE Lubrication Consultant Mark D. Jones explained to Deborah that by using the best practice of inline oil sampling, as he would be able to enhance the condition based maintenance procedures she wanted. Deborah could reduce man hours and down time. Using the KP Sampling Valves and live sampling from a circulating system (Best Practice) and LEAP, Deborah can now plan and check on the condition of the compressors, reducing man hours and increasing ATS's efficiency.

### **CUSTOMER COST SAVINGS**

Deborah reduced man hours from 4 hours to 30 minutes. She reduced the job from two people to one. Sampling can be done at anytime and the compressors never have to be shut down to take a sample. There are no more messy tubes and oily rags to carry from compressor room to compressor room. Deborah e-mailed this note to Mark Jones

*"We pulled oil samples from the compressors yesterday. Those Sampling Valves were fantastic!... Sampling takes less than 2 minutes for each compressor now (compared to 15-30 minutes each*

*We would like to thank ATS Site Manager, Randy Nelsen; ATS Planner, Deborah Jacobs; Maintenance Technician, Marc Brown and LE Lubrication Consultant, Mark D. Jones, for the information provided to prepare this report.*



Marc Brown taking a sample

*before). We don't have to shut the compressors down (very important), no tools needed and we don't have to spend so much time in those HOT compressor rooms! I really don't need a technician's help anymore so that saves labor hours.".....*

### **OTHER PRODUCTS USED**

- \* 608 Almasol® Vari-Purpose Gear Lubricant
- \* 680 Almasol® Worm Gear Lubricant
- \* 6803 Multilec® Industrial Oil
- \* 4933 All Purpose Hydraulic Oil
- \* 1275 Almaplex® Industrial Lubricant
- \* 1250 Almasol® High Temperature Lubricant
- \* Oil Safe Containers
- \* Des-Case Breathers, Filter Carts
- \* Tote-A-Lube



Mark Jones