

Customer Testimonial



Monolec® R & O Compressor / Turbine Oil (6403)

Southern Foods, Inc. – Greensboro, N.C.

Beach Russ Rotary Pumps

- Reduced operating temperature
- Eliminated sludge buildup on internal parts
- Reduced makeup oil and total oil used by more than 73%, from 540 gallons to 145 gallons
- Extended drain intervals from 6 months to 24 months

Customer Profile

Southern Foods, Inc, located in Greensboro, NC, is a premier distributor of fresh and frozen meat products (beef, chicken, pork and fish) for restaurants and home service. They have been in business since 1954 and deliver to customers in North Carolina, South Carolina, Virginia and Georgia. The company maintains a fleet of 50 trucks and employs about 200 people.

Application

Nine (early 1950s) Beach Russ Rotary Pumps (model no. 325-DC) are used in the plant to vacuum pack their specialty meat products for delivery to customers.

Challenge

Jim Robb, fleet / plant manager, had been using a commercial grade oil, Shell Tellus 68, for several years in the Beach Russ Pumps. Lubricant change interval was every six months and makeup oil for each unit was sometimes up to eight gallons between change intervals. During operation, the oil chamber area was running so hot you couldn't lay your hand on the unit and leave it there. Jim was interested in an oil that would give better performance by extending drain intervals, run cooler and maybe use less makeup oil.

LE Solution

Jeff Boyles, LE lubrication consultant, presented the LE Reliability Program for longer drain intervals and improved performance. Robb was shown how the LEAPSM oil analysis program is used to monitor the condition of the oil and equipment. The oil is changed on a conditioned based program not a set time period. Jeff recommended LE Monolec® R & O



Compressor / Turbine Oil (6403) for extended drain intervals. LE 6403 contains Monolec, LE's exclusive additive which reduces heat, friction and wear in equipment applications.

Results

All the units were changed in February 2007. Oil samples were taken of the old oil for baseline comparison. One benefit was noticed right away. The units ran cooler, at least 20 degrees cooler by Jim's estimate. Now you could lay your hand on the



unit and leave it there whereas before you could not. The next benefit was noticed after about 3-4 weeks. Makeup oil dropped considerably. Some was added the first four weeks but after that, oil usage went to near zero. Jim estimates in the 24 months since the oil was changed, no more than eight gallons has been added to any of the units. One of the units had oil added initially for the first 6-8 weeks but then went down to near zero also.

Oil drain intervals were done based on condition rather than preset time. Oil samples were taken about every six months and oil drain intervals were extended to 24 months.

Monolec 6403 has already been in service three times longer than the Shell Tellus product.

If the Shell product had been used during the past 24 months, oil usage would have been:

4 changes X 90 gals. each change (10 gal cap X 9) = 360 gallons
Makeup oil 45 gallons each interval X 4 = 180 gallons
(conservative sometimes higher)
Total usage = 540 gallons

Actual Monolec 6403 oil usage:

1 change x 90 gallons (10 gal cap X 9) = 90 gallons
Makeup oil about 55 gallons during entire 24 months
(conservative, may actually be lower)
Total usage = 145 gallons

Monolec 6403 has cut oil usage vs. the Shell Tellus product by 73 percent (395 less gallons consumed) from 540 gallons to 145 gallons for the 24 month service interval.

Jim Robb, fleet / plant manager, stated:
"The LE 6403 exceeded my expectations in this application."

Update: Southern Foods, Inc., was recently acquired by Meat and Seafood Solutions, but continues to operate as an independent unit under the Southern Foods name. They have begun updating some equipment and have replaced some of the Beach Russ rotary pumps (1950s models) with new units. Jim reports that the remaining units are still working well with Monolec 6403. Makeup oil is still very low, almost none has to be added and oil drain intervals are at 24 to 30 months.

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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.



Valve body cover with sludge type deposit from using Shell Tellus product. Jim Robb reports no buildup from using LE 6403.



Other Products Used

- BTU⁺ Power Supplement & Cleaner (2420) in the diesel fuel for the trucks
- Almagard® Vari-Purpose Lubricant (3752) on the trucks and non-food grade grease applications in the plant
- Quinplex® Food Machinery Lubricant (4025) in aerosol cans for chain applications in the plant
- Quinplex® Food Machinery Lubricant (4025) in tubes for all food grade grease applications in the plant
- Monolec® Gear Lubricant (703) in the truck differentials

Thank you to Jim Robb, fleet/plant manager, and to Jeff Boyles, LE lubrication consultant (pictured), for providing the information used in this report.

