Quinplex® Synthetic Food Grade Oil (4046)

Emerald Performance Products – Cheyenne, Wyoming

Ingersoll Rand Compressor

- Increased oil drain intervals from 1,000 to more than 5,000 hours
- Saved $4,062 after 5,000 hours of use on two compressors

Customer Profile

A manufacturer of quality foam-control additives for the food industry, Emerald Performance Products has been an LE customer since 1999.

Application

Emerald has two Ingersoll Rand UP6-30 rotary screw compressors.

Challenge

With the previous oil, compressors were running hot, and the oil oxidized and turned black in less than 1,000 hours of operation.

Solution

Mike Carter, LE lubrication consultant, recommended Quinplex® Synthetic Food Grade Oil (4046), which is NSF H1 registered and cleared for use in USDA-inspected facilities. Quinplex Synthetic Food Grade Oil has superior low-and-high-temperature performance and excellent load-carrying capacity, anti-wear properties and seal compatibility.

Results

After converting, Emerald’s oil analysis showed the Quinplex Synthetic Food Grade Oil (4046) was still good for service after 5,000 hours of operation. Using the LE oil, Emerald achieved a combined cost savings for the two compressors over the 5,000-hour period of $4,062. (See table below.)

Other LE Products Used

- Quinplex® Food Machinery Lubricant (4025)
- Quinplex® White Gear Lubricant (4090)
- Monolec® Multiplex Lubricant (4622)
- Monolec® R & O Compressor/Turbine Oil (6406)

<table>
<thead>
<tr>
<th>Previous compressor Oil</th>
<th>Cost</th>
<th>Quinplex Synthetic Food Grade Oil</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil cost for 5 oil changes</td>
<td>$2,250</td>
<td>Oil cost for flush and initial fill</td>
<td>$408</td>
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<tr>
<td>Separator elements</td>
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<td>Filter element</td>
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<tr>
<td>Total</td>
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<td>Total</td>
<td>$408</td>
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Thank you to Tim McMurtry, maintenance manager, and to Mike Carter, LE lubrication consultant (pictured), for providing the information used in this report.