

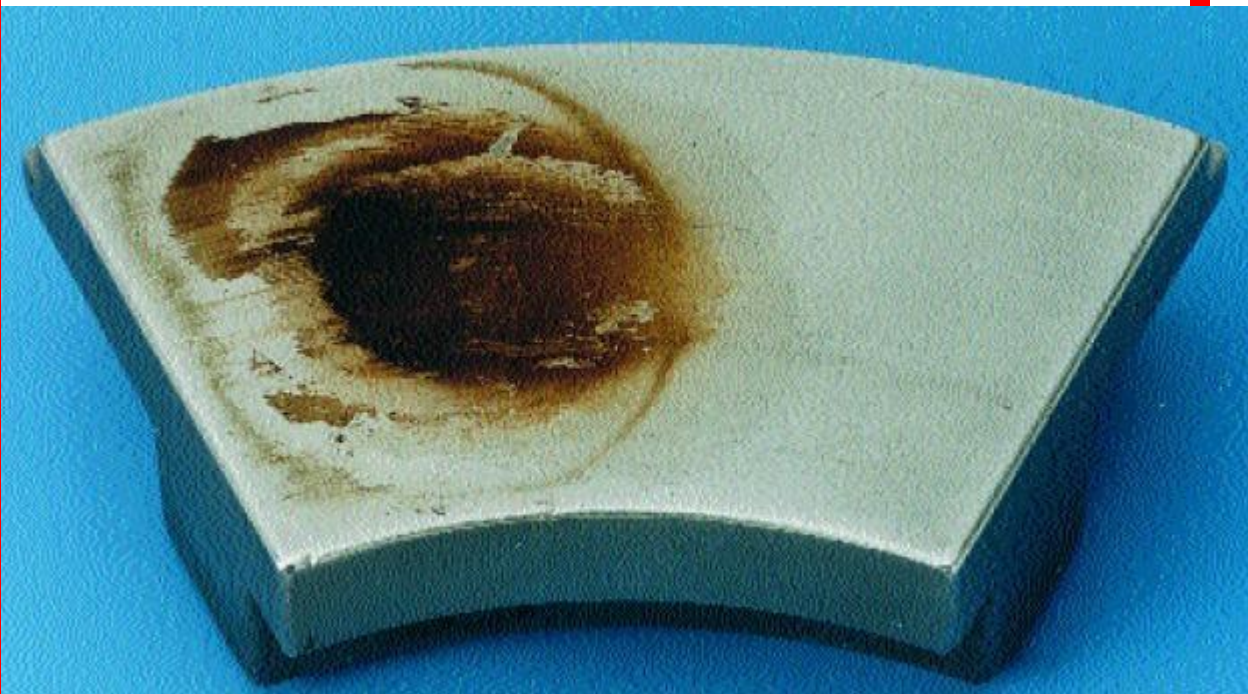


Flexware[®]

Turbomachinery Engineers

A Veteran & Employee Owned Small Business

Hydrodynamic Bearing Varnish



Bearing and oil seal varnishing are caused by the precipitation of oil additives at high temperatures. While there is a limit to what you can do to reduce the operating temperature, you can select an oil that functions better at higher temperatures. Look for a turbine oil that has little or no additives. While synthetic oils can solve the problem, even they have additives to control viscosity and other properties, so they may not resolve the issue.

The oil is required for hydraulic lubrication but also cooling of the bearing or seal parts. Once the varnishing initiates, the oil is restricted due to the thickness of the varnish and the reduced passage for the cooling oil to flow resulting in

higher operating temperatures and thus accelerated varnishing.

Read More about Hydrodynamic Bearings

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