Stop waiting for varnish to build up downtime

Many of today's reliability engineers consider varnish to simply be a way of life: a problem that builds up over time, that can only be cost-effectively addressed after oil conditions change or equipment problems occur.

However, as we look more closely, a new problem begins to emerge: assumptions about varnish-related issues might be costing engineers more than they realize in the long run.

Varnish isn't always considered a top priority

Reliability engineers already face multiple challenges every day that are competing for their immediate attention and efforts.

- **Manpower reduction**
- **Budget cuts**
- **Regulatory changes**
- **Equipment availability**

Varnish is an issue that leads to other problems

The downside of avoiding the varnish issue in favor of other priorities is that it leads to:

- **Valve stiction**
- **Reduced oil cooler performance**
- **Failure to start**
- **Trip event**

A reactive solution isn't as cost-effective as you think

A failure to start or trip event that results from unaddressed varnish buildup can impact a plant's bottom line in 2 major ways: lost revenue and possible penalties.

Base load plant turbine

Operates **24** hours/day

~$288k

in lost sell price to the grid

Merchant plant turbine

Operates **8** hours/day

~$500k

in lost sell price to the grid

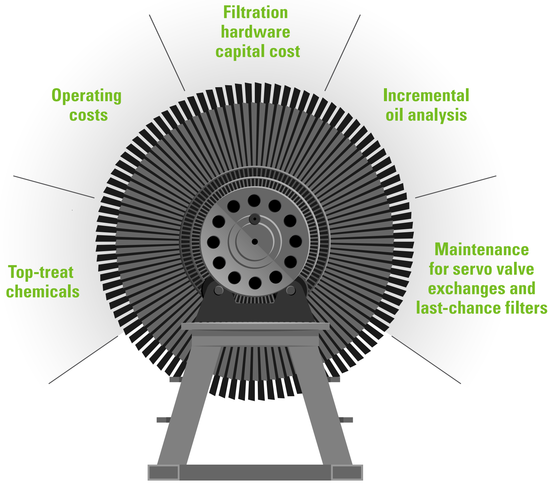
Combined with potential penalties, that's up to

$1M

TOTAL

The estimated ongoing maintenance costs to combat varnish build up:

$40,000 per turbine, per year



You need to get ahead of the problem

Varnish-related issues can arise quickly, and when they do, the extra costs associated with fixing them have a similar trajectory. More than ever, reliability engineers need to recognize varnish as a problem that can only be solved cost-effectively *before* it becomes one. And that means finding a **proactive solution** to the problem—one that starts with careful system preparation for a properly chosen turbine oil that can help prevent varnish from forming in the first place.

GET PROACTIVE ABOUT VARNISH >