



# ICB® JET PRODUCT BULLETIN

**Meet ICB® JET.** Safe, reliable and cost-effective chemistry solution for in-service aeroderivative lubricants focused on the root cause of degradation: varnish and coke deposits.

## OVERVIEW

Aeroderivative turbine oil, made from high-quality polyol ester base stocks, is used exclusively in jet lube applications because of its high oxidative stability and unique viscosity requirements. From the first day jet lubes are put into service, they begin to break down due to oxidation and hydrolysis, creating dissolved degradation products. These dissolved contaminants are produced from high temperatures, water content and entrained oxygen. Once the lubricant becomes saturated with these dissolved breakdown products, varnish and coking deposits form.

ICB JET, patented ion-exchange technology, continuously removes acids, varnish, oil coking precursors, and dissolved contaminants. Rather than wait for these oxidation by-products to cause harm, ICB JET breaks the accumulation cycle and eliminates the root cause of deposit formation and equipment failure.

## ICB JET FEATURES AND BENEFITS

- Removes acids and the varnish they produce
- Protects hydraulic variable geometric control systems from sticking



- Resolves known issues when speed changes occur
- Prevents deposits in oil supply lines which otherwise cause supply restrictions, starvation and bearing damage
- Protects against compressor surges and catastrophic engine failure
- Prevents fail-to-start symptoms, protecting production streams
- Manages fluid chemistry and additive consumption levels, extending fluid life, reducing consumption costs and environmental impacts
- Creates a trouble-free operating environment with predictable outcomes and costs

## YOU ARE ONE STEP CLOSER TO TROUBLE-FREE OPERATION

Submit an oil sample today to our state-of-the-art lubricant research Fluid Technical Center, and let's get a handle on your aeroderivative turbine oil's condition. We take the routine out of oil analysis, providing a complete picture of your aeroderivative lubricant condition.

From advanced testing to the expert interpretation of results, our team of professional and Ph.D. chemists are here to provide the data you need to make informed decisions about your critical assets. You can expect more when you partner with our Fluid Technical Center.

### Our Lube Oil test package, applicable for aeroderivative or jet lubes, includes:

- Acid Number ▪ MPC Varnish Potential ▪ Viscosity (40°C) ▪ Water
- ISO Particle Count ▪ Dissolved Metals ▪ Fluid Color ▪ Antioxidant Levels

Our Fluid Technical Center reported analysis and results will be utilized to determine ICB JET sizing and a complete lubricant treatment plan inclusive of ICB JET filter change out intervals to achieve lubricant stability.

