

*KPL Lubricants & Filtration is an Australian based company, servicing a vast range of industries across Australia and Indonesia. KPL has a breadth of experience and expertise in the power generation and mining sectors. In partnering with you to incorporate a total lubricant and filtration plan for your equipment and provide services to support your engineering team.*



### KPL specialise in:

- Complete lubricant and fuel service solutions
- Total fluid conditioning & monitoring program available
- Tailored solutions specific to your filtration and lubricant requirements
- Varnish removal using Balanced Charge Agglomeration (BCA) technology

*Removing contaminants and moisture from your lubricants and fuel will allow your machinery and equipment to run at its optimum level and considerably reduce the costs associated with unnecessary maintenance downtime.*

### Benefits:

- Extend the life of your lubricants
- Increase machine up-time
- Reduce operational & shut down costs
- Superior service with technical expertise
- Environmental benefits
- Better Fuel performance



Left: Emulsified Lubricant

Right: Lubricant Post Filtration

### KPL Services include:

- On site lube maintenance (flushing and filtering)
- Varnish removal program
- Commissioning (Pre-commissioning and handover)
- Lubricants engineering support
- Filtering Lube & fuel systems and oil & fuel analysis
- Training (filtering and technical equipment)
- Lubricants monitoring and reporting
- Supply of high quality lubricants
- Filtergrams
- Surveys and OEM specification and set up

## VARNISH REMOVAL SYSTEM THE ISOPUR BENEFIT

*The ISOPur unit has unmatched fluid purification & system cleaning capacity and is designed to remove varnish and sub-micron particulate from machinery internals and from oil.*

- PLC control & data tracking
- Proven prevention & removal of sludge and varnish
- Removal of oxide insoluble & biological contamination
- Removal of ferrous & non-ferrous contamination
- Efficient & highly effective water removal with coalescer
- Extends the life of antioxidant additives by removing products of oxidation



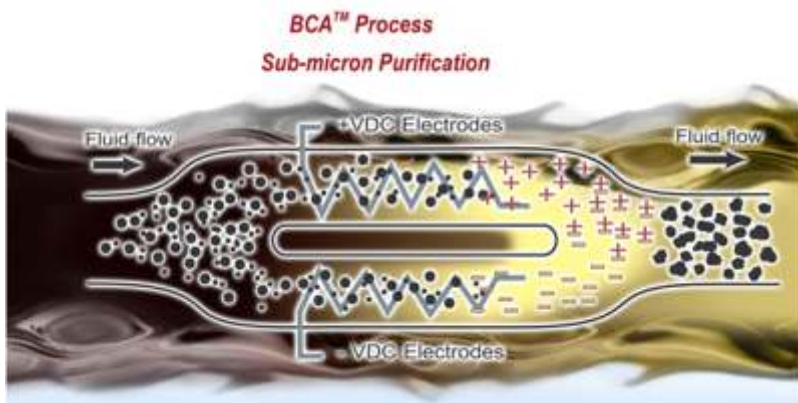
Thrust bearings without purification systems installed



Thrust Bearing at 7 Years of Operation with the ISOPur purification Unit

### The Balanced Charge Agglomeration (BCA) technology:

- Assists with removal of pre-existing varnish
- Effective on both soft and hard sub-micron particulate
- Enhances current filtration
- Reduces maintenance and repair costs



#### BCA™ Process

BCA™ works by charging the particles in oil with a positive and negative high voltage in two separate flow paths. The charged particles are then allowed to mix in a single flow path. Due to electrostatic attraction in the mixer the particles, some as small as .01 micron, stick together and agglomerate into larger particles. The resulting large particles are then easily filtered out in a standard high quality filter