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News Release

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Kleentek introduces compact hydraulic oil cleaning system Lightweight DOC-R3 electrostatic oil cleaner designed for industries with smaller reservoir needs

CINCINNATI, OH – September 20, 2005 – Kleentek announces the launch of the model DOC-R3, its smallest oil cleaning and hydraulic equipment improvement system. The Kleentek product line is an industry-leading, technologically advanced oil cleaning system that works electrostatically to purge oil of contaminants. Kleentek systems are used in the power generation, automotive assembly, injection molding, maritime and chemical refining industries, among others.

The DOC-R3 was designed to meet the demands of smaller hydraulic and lubricating systems, with filtering volumes under 150 gallons. The new DOC-R3 unit has a compact design for easy system integration. It weighs only 43 pounds, which reduces shipping costs for customers. Besides being lightweight, the DOC-R3 comes with handles on the side for easy mobility. Kleentek's DOC-R3 will be especially useful in forest products, metals and other small hydraulic and lubrication applications in a broad range of industries.

“Smaller hydraulic systems, just like the larger ones, are continuing to face the issue of varnish buildup,” said Kleentek's technical sales manager. “Varnish buildup reduces productivity, increases down time and increases maintenance costs.

“We think the R3 will be a huge benefit to the machine tool industry, the smaller injection molding operations and in some steel mill applications,” he added. “There is a big market looking for a product like this. This is customer driven.”

As hydraulic equipment runs, a chemical process called oxidation occurs, forming tar, varnish or sludge. These sticky substances adhere to machinery components causing "stick and slip" and

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additional wear on metal surfaces within lubricating systems. These products of oil oxidation coat the hydraulic servo, proportional and cartridge valves, forcing the friction in these valves to increase. Unfortunately, the change in friction in these highly sensitive, close tolerance components causes unwanted effects, including loss of control stability, constant valve adjustment, reduced machine performance, erratic cycle times, increased downtime and slow startups.

Kleentek systems use the principles of electrostatics to collect and remove fluid contaminants while eliminating the need for mechanical filters. Kleentek units draw oil from a main reservoir and circulate it at a very low velocity, continually removing contaminants from hydraulic fluids and lubricating oils. These contaminants are trapped on a cellulose collector inside a stainless steel chamber where they are collected and easily disposed. Each collector is made of disposable cellular fiber and is specially pleated to hold contaminants. Depending upon the application, a collector will furnish 2,000 to 10,000 hours of use before a replacement collector is required.

Traditional mechanical filters remove only larger particles, while Kleentek electrostatic systems are independent of particle size -- allowing submicron particles (.01 micron and below) as well as large contaminants to be removed from any non-conductive oil. Only insoluble oil contaminants are extracted; soluble additives present in the oil are not affected. Because this system is so effective in maintaining the cleanliness level of oil, Kleentek eliminates the need for repeated oil changes and system downtime while operating without supervision.

The benefits include increased production, fewer oil changes, improved quality, reduced downtime, less material waste, less maintenance and reduced equipment wear.

Additional features standard on the DOC-R3:

- Stainless steel tanks for superior corrosion resistance.
- Positive displacement pump with integral relief valve.
- Single inlet and discharge allow for simple installation.

The launch of the DOC-R3 comes only a few months after the introduction of the N100, Kleentek's largest-ever oil system. It also comes in the same year that Kleentek dramatically

enhanced its entire line of oil cleaning and hydraulic equipment improvement systems. Many of the new models have a NEMA 4 rating (National Electrical Manufacturer's Association) that allows the product to be used outdoors and in harsh environments, including rain, high humidity and extreme temperatures.

Kleentek offers five models to meet the needs of virtually any hydraulic or oil lubricating application. In addition to the DOC-R3 and N100:

- The N50 filters up to 5,050 gallons of oil at 2.8 GPM.
- The N25 filters up to 2,550 gallons of oil at 1.5 GPM.
- The R10 filters up to 1,050 gallons of oil at 0.5 GPM.

(All but the R3 and R10 are NEMA 4 rated.)

All models are currently available through Kleentek's experienced network of manufacturer representatives and distributors. For more information on Kleentek and a complete list of representatives and distributors, visit the Kleentek web site at www.kleentek.com.

About Kleentek

For more than 25 years, Kleentek has offered innovative and technologically advanced solutions for oil cleaning and hydraulic system improvement in a wide range of industrial environments and applications. Kleentek is manufactured and distributed by United Air Specialists, Inc.; a CLARCOR company.

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