HATCOL®
SYNTHETIC ESTERS APPLICATIONS

Market	Application	Attributes	Product	Viscosity – cSt at 40 °C	Benefits (vs. MO, VO & other synthetics)*
Automotive	Crank case oils	High stability in highly oxidative environment, high load bearing at friction points, lower deposits, elastomeric seal compatibility, lower energy consumption	Hatcol® 2938 Hatcol® 2330 Hatcol® 2990 Hatcol® 3169 Hatcol® 2907 Hatcol® 2362 Hatcol® 3391 Hatcol® 2372	19 22 31 32 40 72 80 125	Improved additive solubility and elastomeric compatibility through the modification of polarity of the base oil, improved lubricity and interaction of the base oil with metal surfaces
Automotive	2- stroke engine oils	High temperature stability, lower valve deposits, lower smoking, lower oil and energy consumption	Hatcol® 2999 Hatcol® 2949	80 83	Dramatic reduction is deposits and smoking, cut oil consumption (100:1 gas: oil ratio possible) lower cost of ownership (maintenance and downtime)
Industrial	Air compressor oils	High stability in highly oxidative environment, longer drain intervals, lower deposits, lower maintenance and downtime, lower energy consumption	Hatcol® 2938 Hatcol® 2901 Hatcol® 5068 Hatcol® 2922	19 28 68 85	Longer drain intervals, reduced deposits on recip valves, lower maintenance and downtime, reduced energy consumption
Industrial	Oven chain oils	Performance in extreme environments (up to 300 °C), low deposits on chain drives, minimal fumes and odor, lower energy and maintenance costs	Hatcol® 2372 Hatcol® 5150 Hatcol® 2941 Hatcol® 3165	125 178 213 390	Dramatic reduction in deposits, reduction in fumes and odors, cut oil consumption by up to 80%, reduce energy consumption by up to 50%, lower maintenance and downtime
Industrial	Gas turbines	Performance in extreme environments (up to 300 °C), no hot spots which cause hard deposits to form, lower energy and maintenance costs	Hatcol® 2954 Hatcol® 2960	24 24	Dramatic reduction in deposits, reduced energy and oil consumption, reduced maintenance and downtime
Biorenewable / biodegradable	Esters having specific natural acid content	Use of green raw materials and green end products	Hatcol® 2938	19	75% Biorenewable / > 60% biodegradable
Biorenewable / biodegradable	Esters having specific natural acid content	Use of green raw materials and green end products	Hatcol® 5068	68	10% Biorenewable / < 60% biodegradable
Biorenewable / biodegradable	Esters having specific natural acid content	Use of green raw materials and green end products	Hatcol® 2377	20	0% Biorenewable / > 60% biodegradable

* MO = Mineral Oil, VO = Vegetable Oil