

Aerospace in the 21st century

What is expected from a technical supplier?

- A strong technology base
- Products which work harder last longer and safer to use
- The same product available in different markets
- Sophisticated packages of product and service
- A partnership culture with sustainable cost reduction strategies

Aerospace in the 21st century

Answering the challenge

- Development of new fluids technologies
- Fluid management services
- Health and safety consultancy services
- Range of fluid management equipment



New Houghton product technologies

Answering the challenge

795 technology coolants

A global family of long life, low foam coolants for central systems and single sump machines.

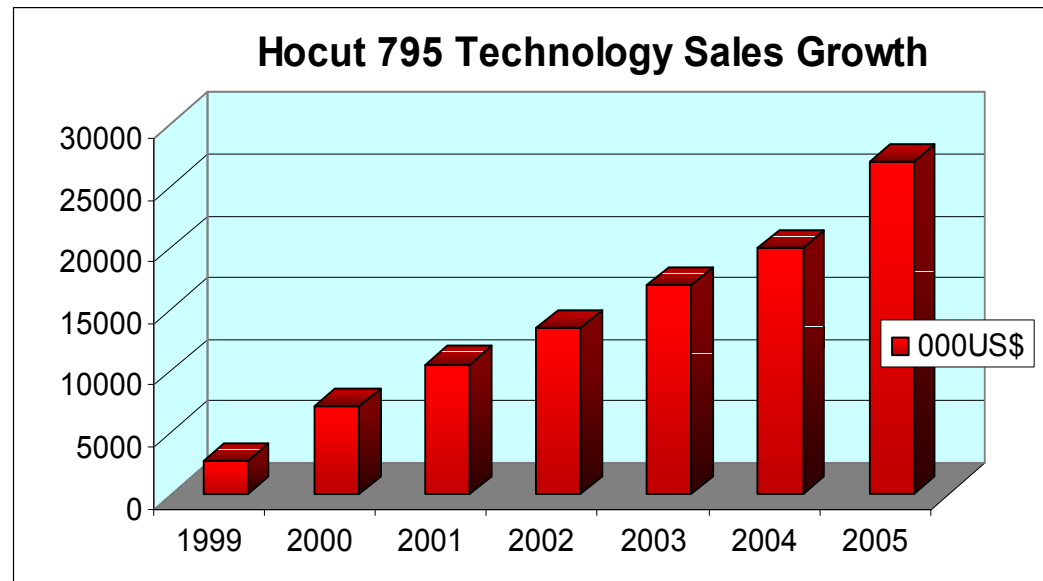


795 technology

One of the world's best selling coolants.....

- Ultra long sump life
- High lubricity
- Low foam

\$30m worldwide sales in 2005



Hocut 795B and Boeing

A global product.....

- First new BAC 5008 coolant approval for 8 years.....
- Used by 7 Boeing plants in USA including
 - *Wichita - Portland – Seattle*
 - *700 m3 in central systems, 1000 single sump machines*
 - *titanium, aluminium, stainless*

And.....Boeing Australia, Boeing Canada



795 Technology and Rolls Royce

Cutting running costs by half.....

Competitor soluble

Fill Cost,	€22,000
Top-up cost,	€78,000
Additive cost,	€15,000
Clean-out cost,	€3,000
<u>Total annual cost,</u>	<u>€118,000</u>

Hocut 795 technology

Fill cost,	€7,300
Top-up cost,	€39,400
Additive cost,	€1,000
Clean out cost,	€1,500
<u>Total annual cost,</u>	<u>€49,200</u>

*56 m3 central system

**58% reduction in
annual running cost**



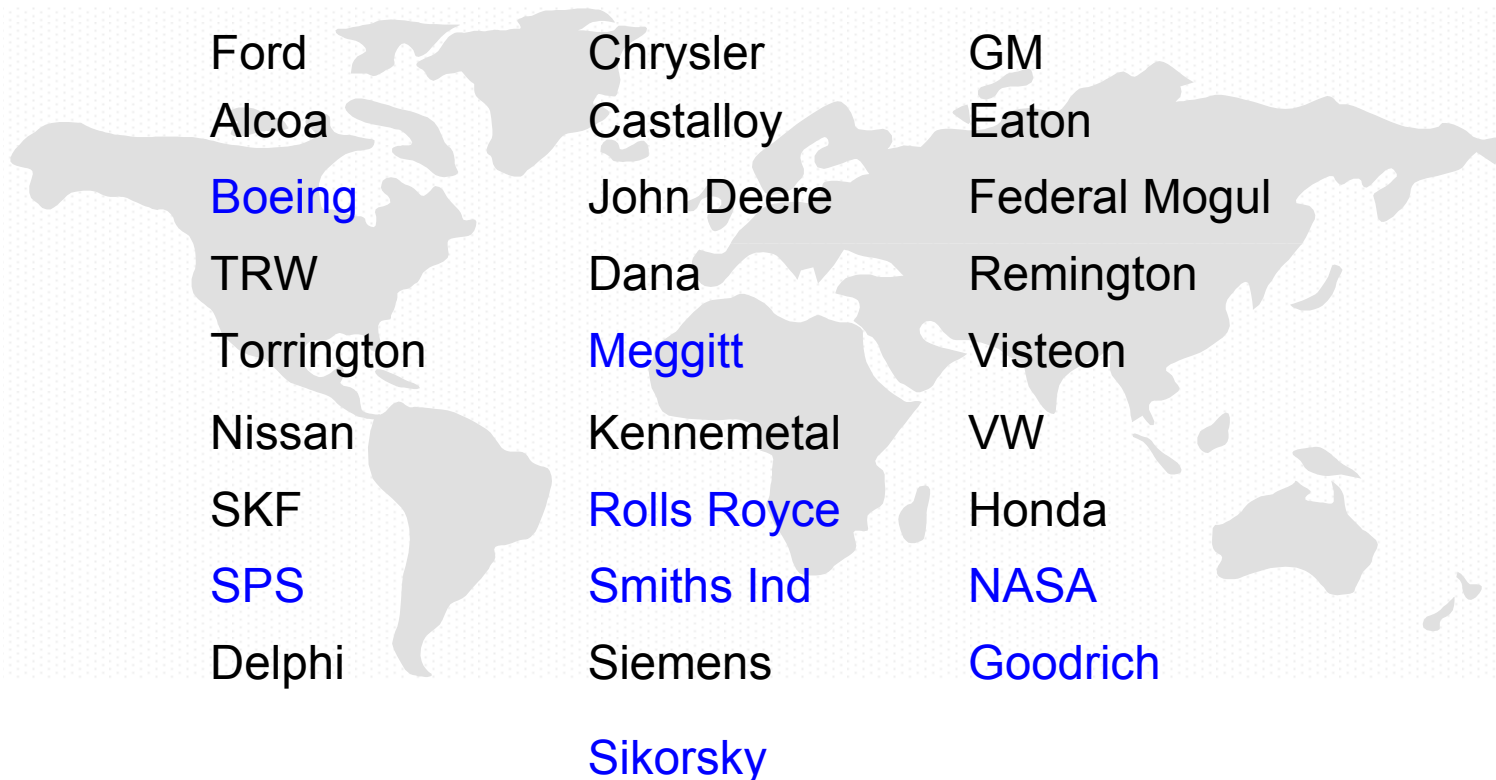
795 technology and Pratt and Whitney NASA, Goodrich, Meggit, SPS, Smiths.....

- Pratt and Whitney, engines
- NASA, Orbitor Space Craft
- Goodrich, landing gear
- Dunlop, braking systems
- SPS Technology, fasteners
- Smiths, Industries, actuators

- And.....



795 technology customers around the world.....



New Houghton product technologies

Answering the challenge

Cut-Max Europe neat cutting oils

Chlorine-free technology



Cut-Max neat cutting oils

A new chlorine-free range for Europe.....

- Best in class European technology
- Key grades Rolls Royce approved
- Complete range for all aerospace applications
- All products chlorine-free
- New synthetic EDM oils



The most comprehensive portfolio for approved production lubricants

- Hocut soluble oils
- Cut-Max neat cutting oils
- Synthetic EDM fluids
- Rust Veto rust preventives
- Houghto-Quench quenching oils
- Hydraulic and lubricating oils
- Performance additives



BAE SYSTEMS

