

HOUCHIN



LOCATION

Ashford, Kent, UK

BUSINESS SECTOR

Aerospace

SIZE

ITW Group: \$17.5bn turnover

VEHICLES

Houchin Ground Power Unit (GPU) with Cummins QSB 6.7 engine

CHALLENGES FACED

1. Houchin Aerospace's Ground Power Units (GPUs) required oil changes every 500 hours to preserve their reliability. Houchin wanted to reduce their customers' costs by extending the time between oil change services.
2. Houchin wanted to promote a distinct technical advantage over other GPU manufacturers.

SOLUTIONS DELIVERED

1. The oil drain interval was safely extended from 500 to 2,000 hours by fitting an Extended Oil Life System (EOLS). Houchin's customers only need one annual oil change service instead of four.
2. Reducing oil costs by 61% is a strong selling point for Houchin. As well as financial savings, Houchin can also promote the extra efficiency a customer gains from fewer services.

“ When we extend EOLS' cost-savings for one GPU across a customer's entire fleet the money and time that can be saved is staggering.

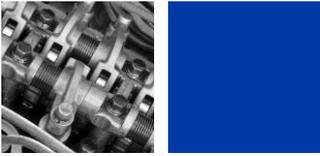


Les Tindall

R & D Manager



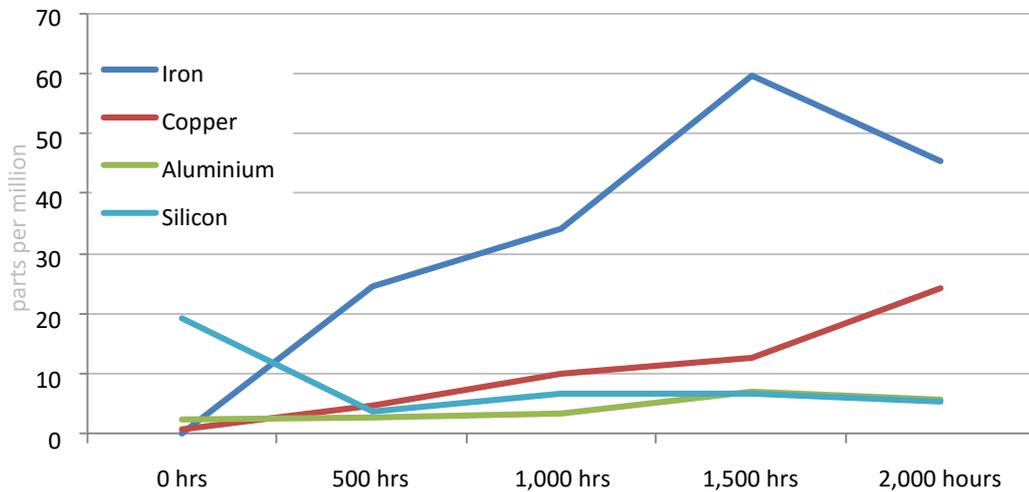
Extended Oil Life System



TECHNICAL GOOD SENSE

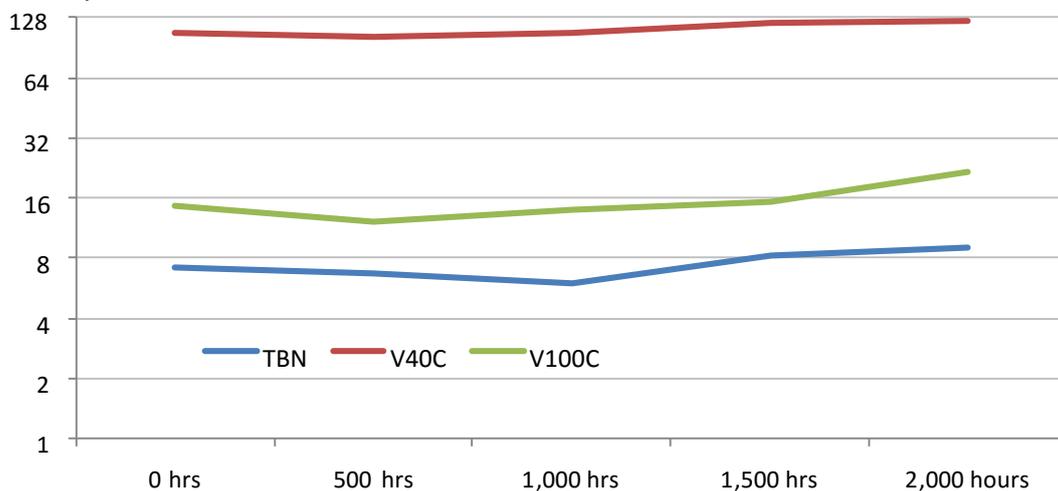
REMOVING WEAR METALS

Even after 2,000 hours (four times the normal oil-change service interval), the EOLS unit keeps wear metal levels far below the norm, improving the oil's ability to lubricate engine parts. The EOLS' proteinrich 1 μ m cotton element removes the particles that combine to cause engine problems.



MAINTAINING FLUID PHYSICAL PROPERTIES

After the same extended service interval, the oil's Total Base Number (i.e. the level of alkaline additives) and viscosity are stable thanks to the EOLS unit's ability to evaporate off water and sulphur dioxide, the precursors of a sulphuric acid reaction.



BACKGROUND

Houchin Aerospace (now part of the ITW Group) manufacture diesel - driven Ground Power Units. Customers include airlines, ground handling companies, lease companies, airports and military organisations.

Houchin determined that its customers wanted equipment that was easier to service and maintain. While their GPUs conformed to industry norms in requiring oil changes every 500 hours, the company wanted to set itself apart from its competitors by being as close the maintenance-free as possible.

SUCCESSFUL TESTING

A 2,000-hour test clearly demonstrated the EOLS unit's ability to maintain oil condition and reduce engine wear. The oil's all-important Total Base Number (TBN) and viscosity remained constant from the start of the test to the finish.

A TRIPLE SUCCESS

By safely demonstrating the EOLS unit's ability to extend oil life, Houchin can promote significant cost savings to its customers. Annual service costs drop from over £1,200 to £319 *per unit*. For customers who run fleets of GPUs this represents a substantial saving every year.

Longer service intervals help Houchin's customers improve their operational efficiency. Units can run all year without needing to be taken offline for oil changes. Fewer standby units are required to cover for units that are being serviced.

Longer oil life permits improved customer service throughout Houchin's supply chain.

ABOUT HOUCHIN AEROSPACE

Houchin Aerospace is a global supplier of Ground Power Units (GPUs). Houchin designs and develops equipment tailored to the aerospace working environment, guaranteeing reliability and longevity.

61%

Reduction in oil costs

www.waagene.no