



Photo courtesy of Harrison SPARC

Harrison Group launches EP additive for metalworking fluid

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Harrison SPARC, the dedicated research arm of the Harrison Group, has reached a significant milestone with the commercialisation of its first proprietary technology: a next-generation extreme-pressure (EP) additive designed for the metalworking fluid sector.

The technology, developed under the internal title Project Adam, has officially transitioned from the research phase into full-scale production and commercialisation. It will be manufactured by Harrison Manufacturing Company (HMC) and sold under the HMC EcoCling EP brand.

The Harrison Group is a long-established, family-owned Australian enterprise with more than a century of experience in the grease and lubricants industry. Its subsidiary, Harrison SPARC (Strategic Projects and Advanced Research Centre), was established 4.5 years ago to develop advanced intellectual property to support the group's long-term growth.

Since its founding, SPARC has managed projects across the lubricants, coatings, and renewable energy sectors. The centre has also secured research funding and formed multiple collaborations with university and industry partners.

Technical performance and ESG benefits

HMC EcoCling EP has been chemically engineered to boost the performance of traditional sulphurised oil EP additives. The technology improves metal adhesion, allowing the formation of a tribolayer film before the onset of high-stress conditions.

According to the company, this mechanism provides several key advantages for formulators:

Sulphur reduction: Effective extreme-pressure performance can be achieved with lower overall sulphur levels.

Clean formulation: The additive eliminates the requirement for phosphates and chlorides.

Sustainability: The product utilises more sustainable raw materials, contributing to improved environmental, social, and governance (ESG) outcomes.

Future applications in industrial gear oils

While the additive was originally designed for metalworking fluid applications, Harrison SPARC and HMC are currently evaluating its use in industrial gear oil formulations. The early tribolayer formation and enhanced metal affinity are expected to provide significant performance benefits in gear lubrication.

The company stated that the versatility of the EcoCling EP technology, along with its potential to extend the life of tools and gears, aligns with Harrison SPARC's founding mission to empower future solutions.

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