

# Upgrade your Waukesha VHP engine with the xCooled Cylinder Head

## Conversion, Modification & Upgrade Offering

### Product description

The xCooled cylinder head offers an enhanced cylinder head design with proven results in field-tested conditions operating on high LHV fuels. By improving the flow of coolant to critical cylinder head components, operators can expect to see increased uptime, reliability, and performance of Waukesha\* VHP\* rich-burn engines. The xCooled cylinder head is offered as a direct replacement for existing Series Four\* GSI cylinder heads, and as a simple conversion kit for Series 2 GSI cylinder heads. All xCooled product offerings are also available through the Waukesha reUp remanufactured parts program.

### Product details

The xCooled cylinder head's robust design is intended for harsh oilfield conditions and low WKI fuels with the following technical features:

- Enhanced cylinder head cooling reduces temperatures seen by critical exhaust valve components.
- Optimized exhaust flow path reduces thermodynamic stresses throughout the cylinder head.
- SPARC spark plug sleeve design prevents coolant leaks.
- Application of advanced manufacturing processes improves component tolerance, reducing assembly variations.

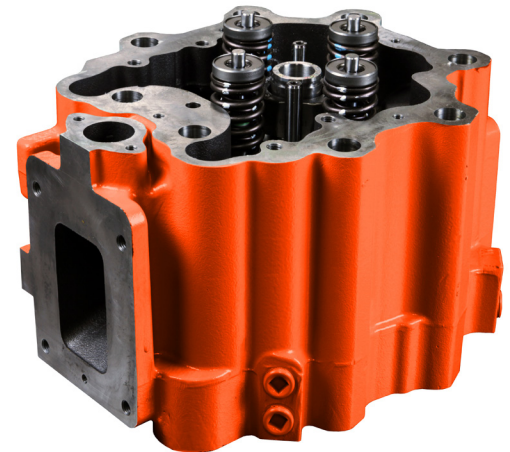
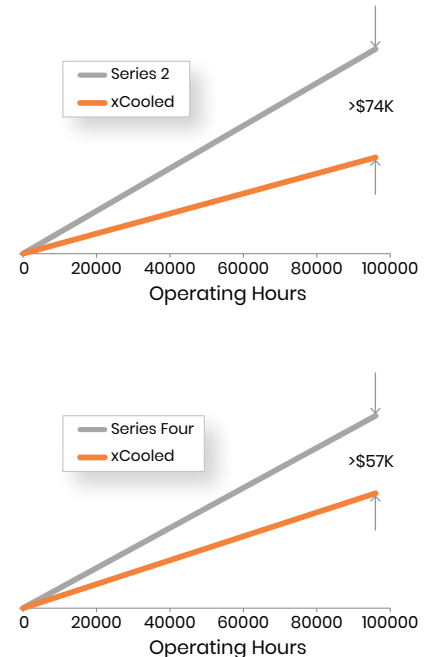
### Customer benefits

- Improved reliability. Up to 40% cooler valve and guide temperatures reduces stress caused by high combustion temperatures while operating in rich-burn conditions and high BTU fuels.
- Extended intervals between overhauls means more up time and lower operating cost. Up to 33% longer intervals between top end overhauls; up to 32,000<sup>1</sup> hours when operating an L7044GSI engine up to 1680 BHP @ 1200 RPM continuously.
- Genuine parts you can depend on. All xCooled cylinder heads are manufactured and assembled by INNIO to ensure the highest quality standards are met.

<sup>1</sup> Intervals may vary depending on factors such as fuel quality, maintenance practices, and operating conditions. Engine configuration must be verified for upgrade opportunity.

### Applicable units

VHP	F2895GSI F3521GSI F3514GSI/F3524GSI L5790GSI L5794GSI L7042GSI L7042GSI S4 L7044GSI P9390GSI P9394GSI
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