

SYSTEM AND METHOD TO REDUCE NOISE IN A RECIPROCATING COMPRESSOR

ABSTRACT

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Embodiments of the present invention provide a system and method to reduce the noise emanating from a cylinder head in a reciprocating compressor. The system includes a cylinder head located within the reciprocating compressor; and a material coupled to the cylinder head, the material being capable of reducing noise associated with operation of the compressor. The system may include a gap between the cylinder head and the material, the gap capable of receiving an oil located within the compressor to reduce the noise. The cylinder head may include a plurality of grooves that provide the gap and/or the material may further include a plurality of ridges that provide the gap. The system may also include a damping material between the cylinder head and the material to reduce the noise. The damping material may be an elastomer.

FIG. 2a