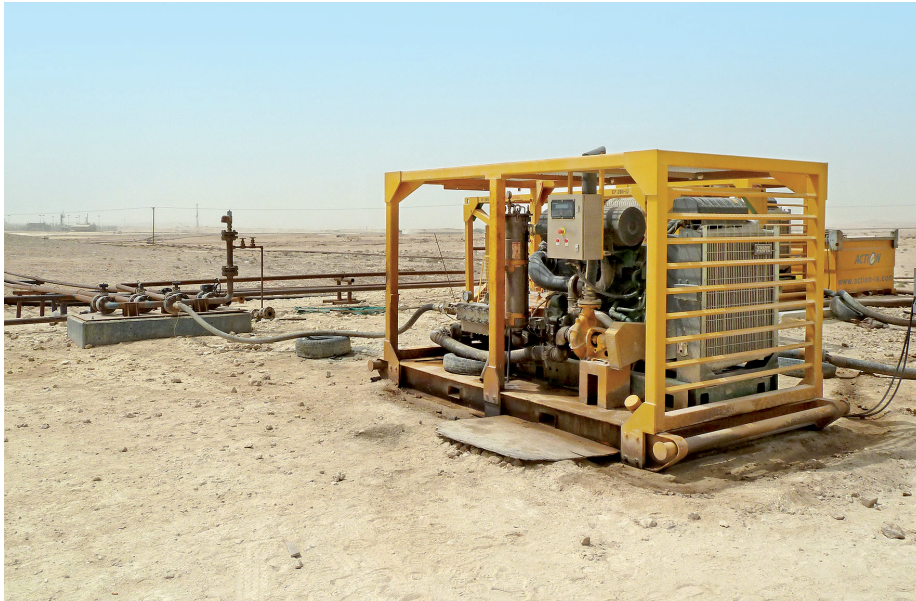


Application Data

Well test



Benefits

- Pumphead & wetted materials manufactured in specialist alloy stainless steel to cope with high H₂S content
- Pumps generally in accordance with API 674
- HPS5000 is 5 cylinder so output is very smooth, improved further by using pulsation dampers
- Zone 2 flame protected engines for use in oilfields
- Unit packaged for extreme temperature use (-20°C to +50°C)
- Same pumps can be used for pipeline flushing, decommissioning, cleaning & hydrostatic pressure testing

Typical Pumps & Performances		
Pump	Performance	Application
HPS3000 (API674)	484lpm at 250bar (29m ³ /hr / 4385bpd at 3,625psi)	Well test
HPS5000 (API 674)	806lpm at 250bar (48m ³ /hr / 7302bpd at 3,625psi)	well test



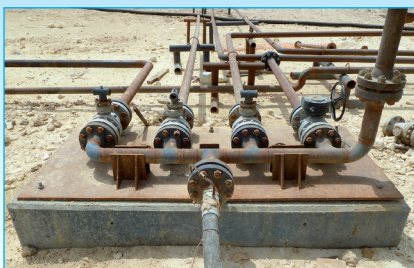
Twin HPS5000 pumpset driven by Zone 2 diesel engines

The oil & gas industry faces tougher legislation to reduce emissions, & one of the key areas of focus is the practice of flaring crude oil. In many parts of the world, governments impose fines on companies that continue to flare at high levels & encourage operators to use other methods to this practice.

Hughes pumps have supplied equipment for use in oilfields operated by Karachaganak Petroleum Operating BV (KPO) in

Kazakhstan as part of a solution to reduce flaring. KPO required data from production tests performed where information gathered was crucial to future development & field management. The solution was to send hydrocarbon fluids direct to the process facility without flaring, reducing impact on the environment.

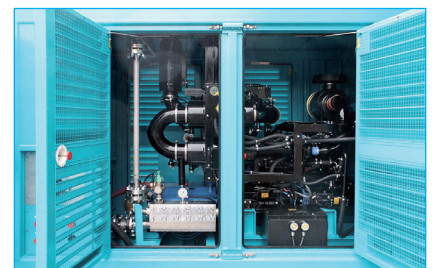
Twin HPS5000 pumps were used to overcome well pressure at 137bar to transfer hydrocarbons with a high H₂S content.



Well test manifold



HPS5000 pump



Close up of one HPS5000 pumpset

This information is intended to be a guide only. The required pump size & performance can vary depending on many factors including rate of work required, hardness of deposit or work piece, operator skill, site access etc.

Hughes Pumps Limited

Spring Gardens, Washington, West Sussex, RH20 3BS UK
Tel: +44 (0) 1903 892358 **Fax:** +44(0) 1903 892062
www.hughes-pumps.co.uk **sales@hughes-pumps.co.uk**



Certificate Number 4257

In line with the Company's policy of research and development, alterations in design, dimensions and appearance are incorporated from time to time in order to ensure that important developments are included at the earliest opportunity. The Company, therefore, reserves the right to alter design, dimensions etc without notice.