

Application story



Hydrocarbon Sampling (1)

Location	India	Hydra-Cell model	G10SKCGHFEHB
Type of application	Hydrocarbon Sampling (1)	Flow rate	10-17 l/min (2.6-4.5 gpm)
Liquid	Diesel Oil Petrol	Pressure	10-60 bar (145-870 psi)
Application details	A large refinery in NW India has replaced mag drive gear pumps with Hydra-Cell G10 pumps on pipeline sampling systems, where liquid hydrocarbons are analysed for sulphur content (a specification check and identifier of the liquid in the pipe). Pipeline sampling is a universal practice in the oil and gas industries everywhere – e.g. at refineries, shipping transfer points or pipelines. It involves taking a liquid sample from a main pipe, often via a bypass loop in which the automatic analyser system is installed. Samples are returned by reinjection at a differential pressure high enough to overcome main pipeline pressure. For many years this Indian refinery had used mag drive gear pumps for sampling - but continuous gear damage through handling scale contaminant (built-up in old pipework) and pumping non-lubricating liquids was causing pumps to fail after 2 months service. Hydra-Cell G10 seal-less pumps were introduced on this site in January 2011. Despite adverse suction conditions and liquid temperatures ranging up to 120°C, no performance or reliability problems had been encountered during 3 years of running without maintenance. Trouble-free operation is highly-valued as the sampling stations are remotely sited and are automatic.		
Advantages of Hydra-Cell pump on this application	Seal-less design, eliminating possibility of leaks in the refinery environment. Ability to handle scale particles and non-lubricating liquids at high pressures. Reliability.		

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