Application story

WANNER™
HYDRA-CELL® PRO
SEAL-LESS PUMP TECHNOLOGIES

Cleaning High Pressure Automotive Parts (2)

Location	USA	**Hydra-Cell model**	G40XACTHFHY
Type of application	Cleaning High Pressure Automotive Parts (2)	**Flow rate**	114 - 133 l/min (30 - 35 gpm)
Liquid	Recycled Water Detergent	**Pressure**	27 - 48 bar (390 - 695 psi)

Application details

A new component-wash system, using hot detergent delivered by a Hydra-Cell seal-less pump at high pressure, enabled a leading manufacturer of turbochargers for diesel engines to remove a production bottleneck and increase output. The problem lay in cleaning the turbocharger housings. After their final machining process, the housings are left covered with coolant and a considerable amount of grit and metal fines.

The previous washing system was too slow, relying on a solvent and oil base solution and requiring the housings to dry overnight before they could be painted. The new high-pressure system cleaned effectively and the hot water rinse, evaporating quickly, left the parts clean, dry and ready to paint within an hour of machining – solving a production problem and reducing lead times for customers. The water/detergent mix, filtered to 100 micron particle size, is recycled and is no problem for the Hydra-Cell to pump at high pressure and temperature (82ºC). Pleased with its performance in the cleaning system, the turbocharger manufacturer subsequently installed Hydra-Cell pumps on other operations in the plant.

Advantages of Hydra-Cell pump on this application

Seal-less design. Ability to pump abrasive recycled hot liquid at high pressure.

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