

GENUINEPARTS
HIGH PERFORMANCE



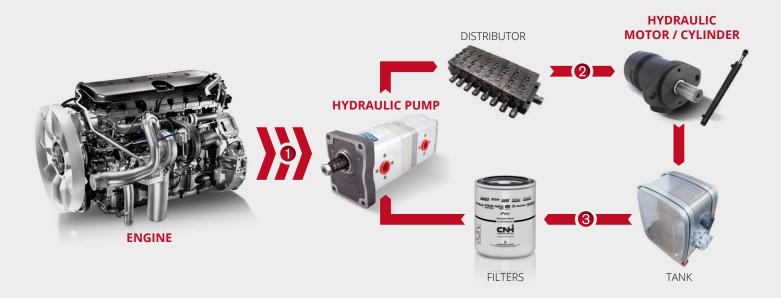
## The key role of hydraulic pumps and motors.

A hydraulic pump is a mechanical device that converts mechanical energy into hydraulic energy (flow and pressure). Hydraulic pumps use hydraulic fluid dynamics (oil can't be compressed, whereas air can) to perform a variety of functions such as:

- Lifting & lowering parts (cutterbars, buckets, forks).
- Operating steering and braking systems.
- Operating hydraulic transmissions (with hydraulic motors).

**A hydraulic motor** converts hydraulic energy into mechanical energy. The hydraulic pressure and flow generate forces and **move the tractor**. As a key part of hydraulic transmission, the motor is able to deliver:

- High torque at low speed.
- Force and torque at a constant level.
- Variable speed: (CVT or Powershift).
- · Near-instantaneous shift to reverse motion.



- **1** The mechanical energy drives the hydraulic pump to draw the oil from the tank.
- **2** The flow of oil is transferred to all hydraulic receivers, such as cylinders and motors, using the distributor switching function.
- **3** The waste oil collected is filtered and can be reinjected into the hydraulic circuit.





Why choose Genuine CASE IH hydraulic pumps and motors?

- HIGH RELIABILITY OF PARTS
- PERFECT FIT FOR THE MACHINE

DRIVING COMFORT

- OPTIMISED HYDRAULIC SYSTEM
- 3 INCREASED PRODUCTIVITY
- TIME SAVING
  ON THE IMPLEMENTATION

## Did you know?

Get the best performance from your hydraulic system with CASE IH Genuine replacement Parts: Hydraulic valves, distributors, cylinders, quick couplers, filters and lubricants.

## Recommendations for use.

HOW TO KEEP YOUR HYDRAULIC PUMPS AND MOTORS IN A GOOD CONDITION.

RECOMMENDATIONS		RISK
FLUIDS	<ul> <li>Change oil reguraly in accordance with the recommended maintenance intervals.</li> <li>Use a hydraulic oil with a min/max viscosity which corresponds with the instructions provided by CASE IH and the conditions of use: temperature, risk of pollution, fire hazard.</li> </ul>	Failure of major components, higher fuel consumption, lower performance.
FILTRATION	Change your filters regularly using Genuine replacement parts.     A finer filtration reduces contamination and offers better protection.     Using a Genuine filter allows a minimal pressure drop for better performance.	Pump piston and valve damaged, clogged cylinders, or high pressure drop.
BREAKDOWN	<ul> <li>Sources of <b>pollution</b> (dust, air bubbles and particles) can damage your hydraulic circuit.</li> <li>Ensure you consult a hydraulics expert during repair operations.</li> </ul>	Breakdown of components due to cavitation, overpressure or excessive temperatures.



At any time, easily and safely from the CASE IH web shop



