

AMCA-FILTERCART

Series CC-KL

Filtercart for additional filtration of hydraulic systems

According to the recommendations of the manufacturers of the military equipment with integrated hydraulic systems, the hydraulic oil has to be changed every 1, 2, or 3 years. However, the need to change oil and filters no longer depends on what is recommended by the manufacturers, but is depicted by the hydraulic system itself. The contamination level (90% of the failures is caused by debris such as, sand/dirt particles, wear metals and water contaminants in the hydraulic system) needs to be maintained at an acceptable level to determine whether or not the oil and system filters need to be changed.



Savings

The most obvious cost of contaminated oil is machine downtime. The number of times you need to replace pumps, valves etc. is directly related to the condition of the oil in the system. The total cost of replacing oil increases as the cost of disposing contaminated oil grows. The use of a filtercart will decrease the times needed to change the oil and as a result, lead to lower disposal costs.

TECHNICAL DATA

- Types:
- for hydraulic fluid H-540 (NSN: 4320-17-107-1784)
 - for hydraulic fluid C-635 (NSN: 4320-17-105-7981)
 - mineral oil according to DIN 51524/51525

- Filterelements:
- type "Spin-on" with two parallel filters
 - filtration ratio $\beta_3 = 200$ (ISO 4572)
 - max. pressure 10 bar and max. flow 600 l/min.

- E-motor:
- 230 VAC $\pm 10\%$, 50 Hz, 1 phase
 - other voltage and frequency optional

- Pump:
- viscosity up to 800 cSt at -10°C
 - proportional flow 8 - 27 l/min.
 - max. suction pressure 0.7 bar
 - safeguarded against pumping without flow

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APPLICATION EXAMPLES:



Filling hydraulic systems with new fluid

The term “new fluid” may give the impression of an acceptable fluid. Unfortunately, this fluid is not clean. According to a “new fluid” survey conducted in 1972 in the USA, in cooperation with over 50 companies, new oil added to a fluid system (e.g at the manufacturing stage, during refilling, or when the fluid is replaced) has a 50:50 chance of being too dirty for components to tolerate and thus causing a serious reduction in the components’ service life.

Flushing and system cleaning

System contamination consists of the residue from the manufacturing process, disintegrated material from operational failure, service wear debris, ingested environmental contamination and intruded debris from the overhaul of the systems. If the degradation of fluid is caused by particulate and/or water contamination, the system and/or the reservoir can be flushed by the filtercart (even when the hydraulic system is in operation)



Drawing off hydraulic fluid

As with other system components, hydraulic fluids can and will, in time degrade, wear out and fail. The physical and chemical properties can be affected so drastically that the fluid becomes totally unsuitable for its intended applications.

Maintenance personnel often have difficulties draining (off) large volumes of hydraulic oil and handling it properly.

Furthermore, the filtercart helps prevent environmental pollution. By setting a simple valve, the filters of the filtercart are by-passed and the fluid can easily be stored in waste/oil drums.

CONFIGURATION

- Frame:
 - robust frame with removable drip device
 - hoisting-device
 - 4 wheel drive with brake

- Filtersystem:
 - with clogging indicator
 - filterelements “PALL 7500” Series
 - flow-indicator
 - by-pass valve
 - 3-way valve to achieve by-passing the filterelements during draw off
 - “mini-mess” coupling for sampling

- Accessories:
 - suction hose, 5 m long on hose reel and quick connect coupling
 - suction pipe 1,1 m with quick connect coupling
 - pressure hose, 8 m long on hose reel and quick connect coupling
 - pressure pipe 0,5 m with quick connect coupling
 - preset batch meter 0-60 liter with quick connect coupling
 - counter for running hours
 - store-bag for documentation

- Optional:
 - other configuration E-motor
 - other filtration elements
 - own supporting energy-system
 - portable particle contaminant monitor that counts particles.