

- ✓ Fast water and contamination removal
- ✓ Fully automated and real-time monitoring
- ✓ System flushing and cleaning
- ✓ Free oil sample testing
- ✓ Environmentally friendly



# HCS OIL CLEANING AND FLUSHING SERVICE

Service Code: HCS1000/6000

HCS offers various systems to clean most types of contamination in oil. We work on a wide range of viscosity -- up to 400 Cst. We remove water and contamination resulting to an oil cleanliness level that is better than new oil.

We also flush the system while we clean the oil so there is no need for a flushing oil and waste the oil that you already paid for. This is the fastest and most economical way to get your hydraulics system back up and running. In most cases, the equipment can be operational in a matter of hours.



The normal procedure for this service is to first obtain a sample of the current oil in use to verify that it is useful and in a condition that can still be cleaned to ensure our clients will get a satisfactory result. Once we get an acceptable oil sample result, we will proceed to cleaning the oil. After a visual check of the oil's cleanliness backed by the system's sensors, another sample will be taken to confirm that the oil is clean.

We have state of the art systems that use the latest and best methods to clean oil efficiently. Online water and contamination monitoring sensors are installed to make sure that the oil condition is improving and that the HCS Cleaning System is working at optimal rate. Our smallest system has a flow rate of 1000 LPH with water removal rate of 2.5 to 3 liters per hour. Our largest system has a flow rate of 6000 LPH with water removal at 15 to 20 liters per hour. Our particle removal systems varies from 350-1000LPH and clean down to 1 micron.

Our rates are lump sum per liter regardless how long it takes to clean the oil and include free oil test and analysis. We will agree with the client beforehand on what cleanliness level to achieve in order to consider the oil clean. Our target is less than 50ppm for water and NAS Level 6 or better for contamination.

Oils we can clean: Cooling Oil, Engine Oil, Gear Oil, Hydraulic Oil, Transformer Oil\*.

\*Cleaning Systems for Transformer Oil have a different specification.

TECHNICAL SPECIFICATIONS			
Model		HCS1000	HCS6000
Flow Rate	L/hr	1000	6000
Vacuum	Bar	-0.9	
Discharge Pressure	Bar	≤ 4	
Temperature Range	°C	50 to 80	
Work Environment Temperature	°C	50 to 70	
Power Supply		380V / 415V / 440V, 3	
Noise	dB (A)	75	80
Heating Power	kW	18	55
Total Power	kW	20	60
Inlet / Outlet	mm (dia)	25	42
Weight	Kg	450	950
Length	mm	1260	1800
Width	mm	900	1300
Height	mm	1500	1800

PERFORMANCE DATA	
Gas Content	≤ 0.1%
Impurities Degree (Filtration Precision)	≤ 1 micron
Moisture (Water Content)	≤ 50 PPM
Cleanliness	≤ NAS 1638 Grade 6

Note: Mixed oils can be cleaned but we do not or cannot alter the chemical composition of the oil. The mixed oils will be made up of a combination of chemical properties of both oils.