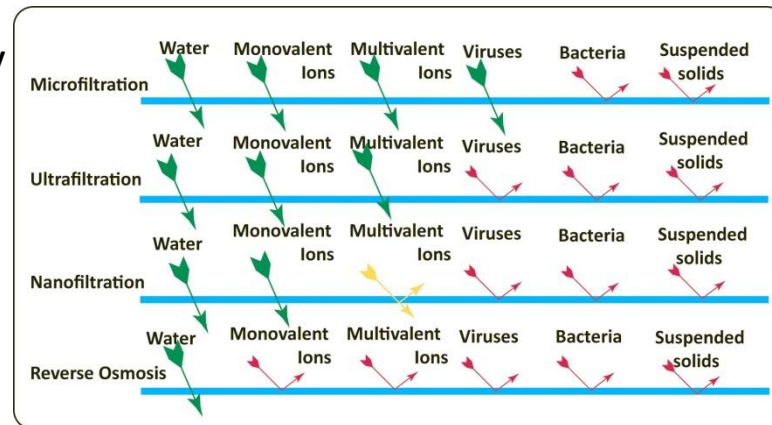


Chinese 5000 years History Innovation Waste Coolant Recycling, Reconditioning, Reuse System

- Sample (2 Original Waste Barrel): From Customer Plant Date:Jun 13
- Treatment Process:
 - 1) High Purity Ozone Treatment (Kill Pungent Odor, Black Slurry)
 - 2) Patent Technology (HFP Type Electrochemical Deboning Process)
 - 3) Coagulation by additive and Microfiltration, Filter Press Cake
 - 4) Hugotech TMF-Vicdi Bio-control Nanotechnology Filtration
 - 5) Adjusted additive to make Water Disposable (Apart from COD)
- Test Site: China Vicdi Factory
- Temperature:32°C
- Relative Humidity:65%



1) High Purity Ozone Process- Major odor and bugs are eliminated



Initial Waste
Coolant gets
Pungent Odor,
tramp oil.....



Before Fluid is Dark
and Odor. After 30
min. by Ozone
Treatment, Bugs are
killed and toxic
organic
contaminant are
oxidized

2) Patent HFP Electrochemical Deboning Process- Large chemical bond from contaminant are breaking down into smaller molecules for later Filtration Stages



Before Fluid is Dark and contains huge chemical molecules which is difficult for later stage treatment



After 1 hour Electro-chemical process fluid becomes clear and tramp oil are suspended

3) Coagulation by additive and Microfiltration, Filter Press Cake



Concentrate Fluid and
be more concentrated
and make a "Cake" By
Filter Press



After addition of "Coagulant Additive" and then go through Microfiltration Process,
Lighter yellow Filtrate contains surfactant , coolant chemicals are Separated Out.

4) Hugotech TMF-VD Bio-control Nanotechnology Filtration



After 20 min. TMF-VD Filtration Process, the transparent clear water can be separated out. Which is high COD content and need to verify other Ion Content, performance for further use in mixing the New Coolant