

Effective Tramp Oil Removal By Sovereign KBF And 3-Dimensional Filter Media

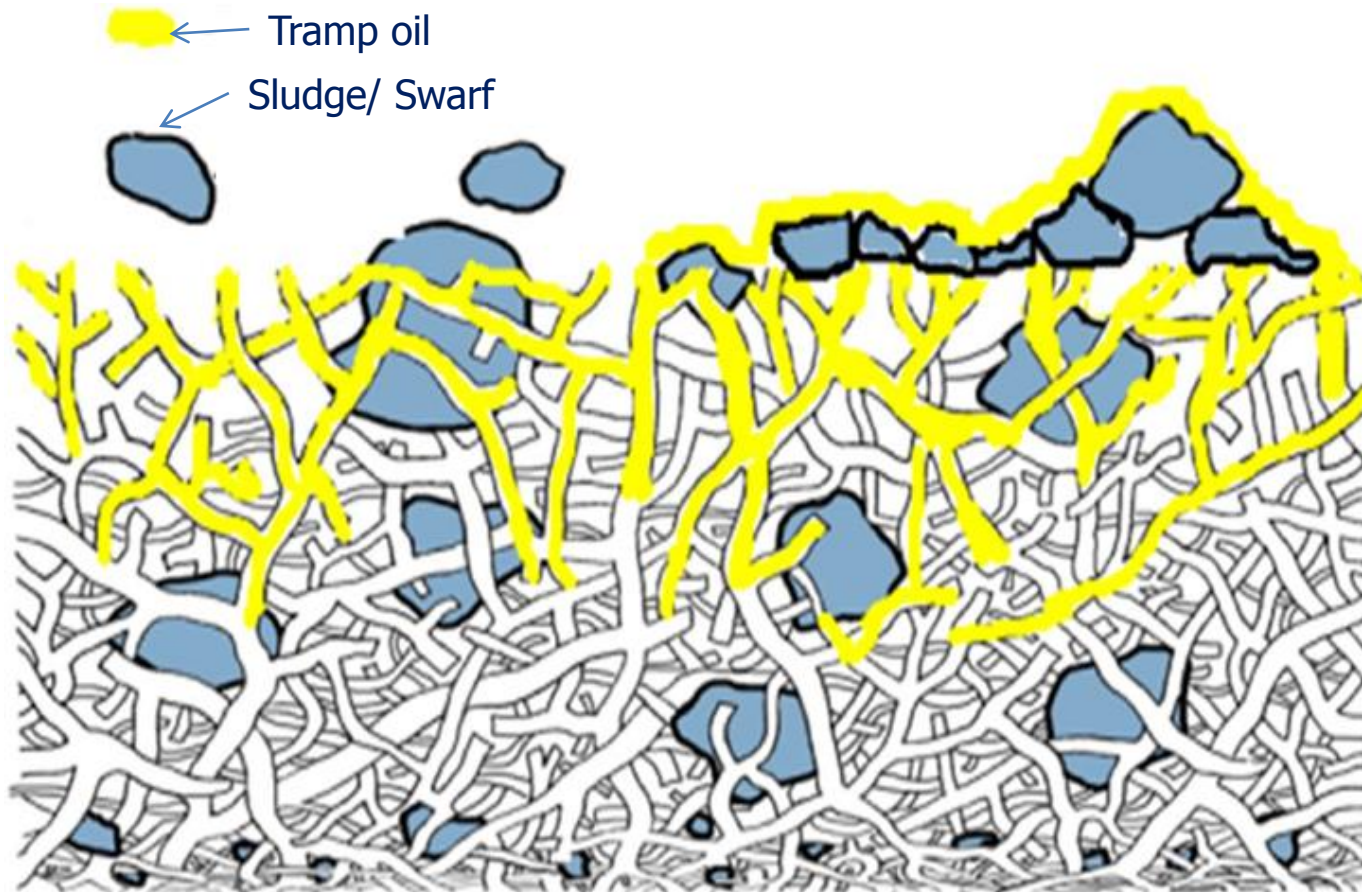
Detrimental effects of Tramp Oil

- Removal of tramp oil layer is critical for Emulsion, Machine, Tools & Work Piece.
- If left unattended, tramp oil will form oxygen - depleted zone creating an ideal environment for microbes to feed and grow
- These microbes then turn the oil layer into biomass layer which is hard to skim and can aid cross contamination
- Once the bacteria overtake the coolant chemistry, it lowers the pH of the sump turning the liquid into an acidic bath, which rusts machine interiors and valuable parts
- Soon the sump will give off fowl odors and contribute to health concerns-Predominantly Respiratory & Dermatological in addition to environmental
- Over time, the oil will emulsify into coolant blend rendering it useless for heat displacement at the tool interface.
- The entire process takes very little time, since both the coolant and tramp oil flow through the machine pumps several times over the course of the day.
- If using high pressure pumps the oil will emulsify into the coolant to such a degree that an inverse layer will form. This layer is the blend of 2 components and may never separate.
- Emulsified oils aid in the formation of mist during the machining process. These mists can accumulate to dangerous levels, which can lead to health and safety issues. They also settle on your expensive equipment, helping to cause premature electrical and mechanical failure

Benefits using Sovereign KBF & Filter Media

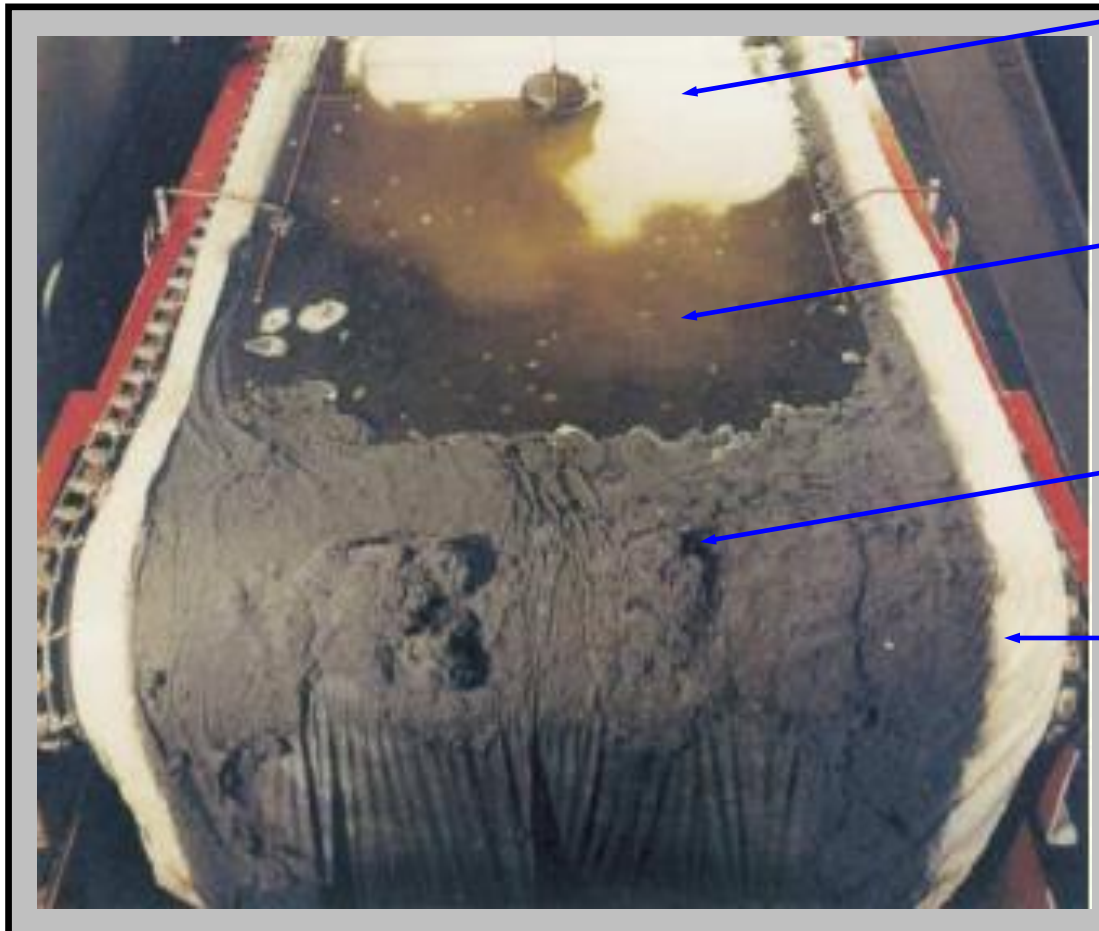
- With 'SOVEREIGN' KBF and 3-Dimensional Filter Media, we aim at retaining not only solid contamination but also the tramp oil.
- 'SOVEREIGN' KBF provides the 'non turbulent zone' in its filtration trough. This non-turbulent zone allows the tramp oil and the grease to float on top of the solution. The tramp oil and grease is then effectively taken out by the 'lofty fibers' of 3-dimensional filter media along with the thin dirt cake build up.
- 3-dimensional filter media N 260/100 is Tramp oil specific media - This media being 3-dimensional it has lots of capillary along its wall. These capillary help in arresting the tramp oil.
- This is how 'SOVEREIGN' KBF & 3-DIMENSIONAL FILTER MEDIA ensure filtration of solid fines as well as Tramp oil.

Tramp Oil arrest 3-Dimensional Filter Media



Tramp oil enters the micro-capillaries of the 3-dimensional Paramoll media which then bonds into a layer by the virtue of surface tension phenomena and is skimmed away very efficiently.

Effective Tramp oil removal by 3-dimensional filter media



COOLANT

TRAMP OIL/ GREASE

SLUDGE

3-DIMENSIONAL
FILTER MEDIA