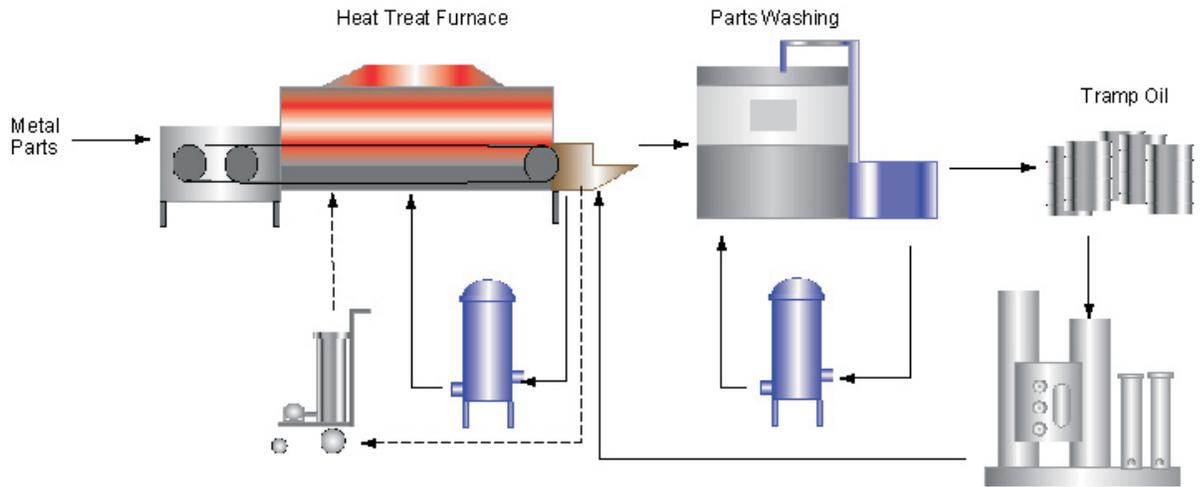


CLASSIC

FILTER & EQUIPMENT LTD

HEAT TREATING



SYMBOL KEY

APPLICATION



Industrial Filter



Portable Oil Filter



Oil Reclaimer

Heat Treating is a process used to change the physical and chemical properties of various metals. Metal parts manufacturers often use Heat Treatment to anneal, harden and temper the products. In the process diagram above, metal parts run through a heat treat furnace along a conveyor belt. After moving through the furnace, the parts are quickly cooled in a quench oil. The parts then proceed to a parts washer where the quench oil is removed through the use of water sprays. The oil is removed from the spray water by a skimmer in the washer sump. This Tramp Oil is then typically stored for disposal at a later date.



Oil that is used in the Heat Treat Furnace is typically filtered to remove any metal fines, carbonized oil and other contaminants. These contaminants can build up in the oil and cause its' heat treating properties to degrade which results in poor quality parts. Classic Filter and Equipment supplies bag and cartridge style filters for this application.



The wash water is another area where filtration is used. Again, contaminants can build up in the water and if not removed, will build up on the metal parts. This can lead to rejection of the parts in quality control. Classic Filter and Equipment supplies bag and cartridge style filters for this application.



Many Heat Treating facilities utilize portable filter systems to clean the oil in the furnace sumps. There are advantages to using this off-line method for filtration. These systems can run when the Heat Treat machines are off. Often, these systems are more robust than the systems on the Heat Treat Machines.



Disposal of Tramp Oil is often a very costly expense for Heat Treat facilities. Typically, tramp oil is stored in drums or other containers until there is enough to justify a pick-up for disposal. Classic Filter and Equipment recommends oil reclamation systems that clean and purify this oil so that it can be re-used. Oil reclamation systems remove moisture and other contaminants from the tramp oil.

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