

Subject: Re: Vacuum cleaning waivers

From: Dennis Coyne <coyne@ligo.caltech.edu>

Date: 11/23/2008 11:21 PM

To: Sam Waldman <waldman@MIT.EDU>

I'm confused. You say that these DLC mounts were cleaned to Class A (at some point in time) and then imply that they were compromised by assembling with Class B tools. We always assemble Class A parts with Class B tools. So, as you have described these DLC mounts, they have not been compromised.

Perhaps their assembly was not done in a clean manner or in clean conditions, or perhaps its been a long time that they have been exposed in a "clean" environment, so that their cleanliness is suspect? If so, then your proposal for cleaning as an assembly (without disassembly) seems acceptable with one caveat: We do not want Liquinox to wick into crevices from which it cannot be rinsed out. I suggest sticking to solvents.

Dennis

Sam Waldman wrote:

HI Dennis,

I have ever more vacuum waivers to ask of you. This time, its for 2 already assembled DLC mounts. The mounts were cleaned to Class A at some point in their history, but have since been assembled and used with non Class B tools. Since they are assembled, they have stainless and aluminum parts all press fit together and some screws threaded into springs that may not come unthreaded easily (I hate DLC mounts).

I would like to have these cleaned as per a normal aluminum load in their mostly assembled position. This includes Liquinox, isopropanol, air bake and then 120 degree vacuum bake. Is this OK or should I do otherwise?

sam

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