

## Re: Rmoving oil inside objective

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*Source:* <http://sci.tech--archive.net/Archive/sci.techniques.microscopy/2005-05/msg00131.html>

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- *From:* "Kevin Cunningham" <[smskjd@xxxxxxxxxxxxxxxx](mailto:smskjd@xxxxxxxxxxxxxxxx)>
  - *Date:* Sat, 28 May 2005 15:34:08 GMT
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"jon" <[jon.goguen@xxxxxxxxxxxxxxxx](mailto:jon.goguen@xxxxxxxxxxxxxxxx)> wrote in message  
[news:1117209098.770795.211240@xx](mailto:news:1117209098.770795.211240@xx)  
> Does anyone know of methods for removing immersion oil from inside an  
> objective? I have a high quality Nikon PlanApo 60/1.4 that has  
> accumulated internal oil after years of use on an inverted scope.  
> After determining the cost and schedule of repair by Nikon, we opted to  
> replace the original objective with a used one. I still have the  
> contaminated objective, and would like to try cleaning it in-house if  
> there's a reasonable approach. It seems to me that if oil can get in,  
> so can a much lower viscosity solvent. I'm considering cycling solvent  
> in and out by the alternate application of positive and negative  
> pressure, followed by drying in a warm oven. Does this seem  
> reasonable? Any other ideas? I haven't seriously considered  
> disassembly, since I have no idea how to do it and I'm afraid  
> accurate reassembly would be extremely difficult.  
>  
> Thanks!  
>  
> Jon  
>

Your idea probably won't work. You have to carefully disassemble the objective and put each lens element in order. Then clean off the objective and carefully reassemble the objective.

There's not a thing simple about this process, there are 16-18 elements in that plan apo. It's simple to write about but you have to be ever so careful. Since you're an amateur ... you just have to be careful. Oh and have the right tools. Some of them you'll have to make.

Kevin Cunningham  
SMS

Re: Rmoving oil inside objective

- **References:**

- ◆ ***Rmoving oil inside objective***

- ◆ *From:* jon

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