



May 11, 2004

Steve Tucker  
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Greetings Steve,

I thought I would drop you a line to let you know how well the Crystal Cut 465 Synthetic Coolant product is performing for us. Since our introduction of the product on December 1, 2003 in our Mori Seiki MH50 horizontal machining center with the 1200 psi Chip Blaster high pressure coolant, we are still maintaining the original charge never having had to draw down, clean and replace. I must say I am very impressed with this product. Our foaming problems with the high-pressure coolant system have been reduced to a very low, very acceptable level. The coolant still has a fresh odor, even though we have run some cast iron across this machine. There is no growth in the sump or any undesirable presence floating on top. Way oil separates readily from the coolant, as it rejects it completely. We are using our regular tap water with this product even though we had such severe hardness, 540 ppm, that destroyed emulsions of soluble oils. Since the introduction of the Crystal Cut 465 in this machine, we have added it to other problem areas with equally satisfying results. I must say that this is just what we were looking for in a coolant and would not be surprised if we replace the S-500 soluble product with the Crystal Cut 465 all the way. So far I have not noticed any difference in tool life between the two products. Our tool life is exceptional. The only reason I have not made the change yet is that the Crystal Cut 465 is suggested for general cutting and your literature suggests the use of S-500 for severe cutting. We have even used roll thread taps in 316 S/S with only the Crystal Cut 465 and had excellent results. I want to thank you again for giving us the initial charge for this machine out of the demonstration machine at the Wichita Industrial Trade Show. I do a lot of product testing; I wish they could all turn out this well.

Thanks again.

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