



DEPARTMENT OF THE ARMY  
US ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND  
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ARDEC Standardization Branch  
RDAR-QES-E, Bldg 92

22 July 2013

NanoLube, Inc.  
ATTN: Chris Arnold  
9 N. Main St.  
Lombard, IL 60148  
630-706-1250  
Chris@diamondlube.com

Dear Mr. Arnold,

This letter provides the results of Phase II weapon live-fire testing and the final status of qualification testing of cleaner, lubricant & preservative (CLP) to the requirements of MIL-PRF-63460E with Amendment 3.

Your candidate CLP product, Quicken CLP, demonstrated excellent live-fire performance in both the cold temperature test and the salt-spray test, with a sustained weapon rate of fire greater than 650 rounds/minute, and no Class I, II, or III weapon stoppages experienced in either test. In addition, your best 2 of 3 weapons in the dust test averaged only 4.5 Class I stoppages against the requirement of no greater than 5 avg., and no significant reduction in weapon rate of fire was observed. I am therefore pleased to qualify your current formulation.

Measuring CLP performance after weapon exposure to a fine dust environment continues to present the greatest challenge to the candidate CLP products, as well as to the execution of the test itself. Similar to what was observed in 2009, the 3 weapons live-fired for each of the 2 candidate CLP products tested this year exhibited consistent performance in the cold temperature test, but not in the dust test.

Because of this significantly inconsistent performance observed with 1 of the 3 weapons fired, the performance of the weapon with the most class I stoppages was eliminated from consideration, and the average of the other two weapons was used to determine qualification. Changes involving the dust test will be documented and published in an update to the specification.

The Qualified Products Database in ASSIST will be updated to show your qualification of Quicken CLP, enabling you to compete in future solicitations for MIL-PRF-63460E w/Amendment 3 qualified CLP.

If you have any questions, please feel free to contact me at (973) 724-3615, or mark.a.napolitano.civ@mail.mil.

Your efforts to support our military, and participate in the DoD product qualification process are appreciated.

Sincerely,

Mark Napolitano  
Manager,  
ARDEC Standardization Branch