

# NuSOL<sup>®</sup> ALUMAX

METAL WORKING FLUID



## CUSTOMER: HEAVY MACHINERY MANUFACTURER

**PRODUCT**

**NuSol<sup>®</sup> Alumax** is a non-chlorinated technology for the machining of non-ferrous metals and exotic alloys. NuSol<sup>®</sup> Alumax is formulated for all machining operations on all metals but is specifically designed to machine today's tougher non-ferrous and aluminum alloys. NuSol<sup>®</sup> Alumax is manufactured using a proprietary blending process that incorporates many unique characteristics into the product that will promote high productivity rates and minimal downtime for the end user.

NuSol<sup>®</sup> Alumax is formulated using a blend of unique preformed emulsions that possess a very small particle size and which demonstrate outstanding boundary lubrication. This small particle size provides a very durable and uniform lubricant film, enhanced wetting and coverage, a very clean running fluid, and exceptional hard water stability for enhanced machining performance on non-ferrous and aluminum alloys. NuSol<sup>®</sup> Alumax preformed emulsions are further complemented with the presence of a surfactant package, offering enhanced boundary lubrication and fluid detergency and cleanliness.

**PROCESS AND EQUIPMENT**

<b>Industry/Market</b>	Heavy Machinery
<b>Product Type</b>	Metal Working Fluid
<b>Product Number</b>	27023F0000
<b>Machinery Involved</b>	Central System for CNC Machines
<b>Description of Environment</b>	Manufacturing of tractor trailer axles
<b>Volume Used</b>	1,750 gallons
<b>Date of Use</b>	December 2015, Charged Central System
<b>Documented Cost Savings</b>	\$25,000

▷ **DESCRIPTION OF PROBLEM**

The current machining coolant had a rancid smell, tacky residue left on parts, dirty buildup on the machines, stained the machine glass, misting in the air, parts dripping on the floor and operator, poor tramp oil separation, and higher consumption usage.

▷ **SOLUTION**

The NuSol<sup>®</sup> Alumax does not smell, leaves no residue on the parts, runs the machine clean, including the machine glass, no misting in the air, no coolant dripping on the floor or operator, excellent tramp oil separation and less volume usage.

▷ **CUSTOMER TESTIMONIAL**

The three things that have impressed the most are the tramp oil rejection, the no misting in the air, and cleaner running machines.