

HIGH PERFORMANCE POWER TOOL GREASE

INDUSTRY:
Power Tools

APPLICATION:
Angle Grinders

COMPONENT:
Gear Train

LOCATION:
USA



BACKGROUND

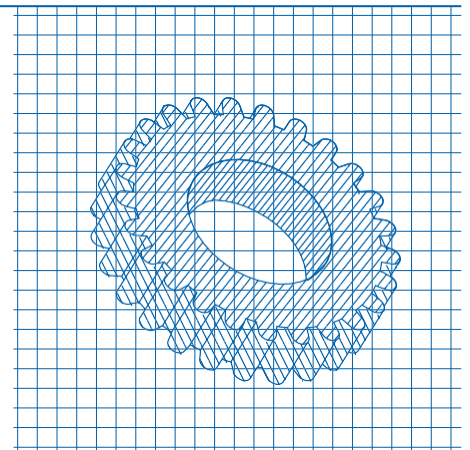
A market leader who specializes in power tools for the DIY consumer and those in commercial trades, reached out to Nye to help lubricate gears in their angle grinders. These angle grinders operate at high speeds of 6500 to 8500 rotations per minute and can generate a great amount of friction from regular operational use. The lubricant would prevent the gears in their gearbox from wearing prematurely, thus increasing the overall lifespan of their angle grinders.

CHALLENGES

- Lubricant must reduce friction and high temperatures in the gearbox
- Lubricant must be cost-effective

SOLUTION: RHEOLUBE® 380 & RHEOLUBE® 380-G1

- Excellent metal on metal protection
- Performs well with heavy loads
- Wide temperature



RESULTS

Rheolube® 380 and 380G1 successfully passed all life cycle test requirements, extending the life of their angle grinders at the right price point. This will reduce premature product failure and save warranty costs. This customer and other market leaders now use Rheolube® 380 to lubricate small angle grinders and Rheolube® 380-G1 to lubricate large angle grinders.

Base Oil Properties	Conditions	RheoLube® 380	RheoLube® 380-G1	Test Method
Chemistry		PAO / Ester	PAO / Ester	
Temperature Range		-50 to 130°C	-50 to 130°C	
Kinematic Viscosity	40°C	400 cSt	ASTM D-445	
Viscosity Index		130	130	ASTM D-2270
Grease Properties				
NLGI Grade		2	1	ASTM D-97
Oil Separation	24 hrs, 100°C	4.5%	18.6%	ASTM D-6184
4-Ball Load Wear Index		34.8	35.6	ASTM D-2596
SRV OK Load	750°C, 1 mm stroke, 50Hz	1400 N	900 N	ASTM D-5706

Since 1844: Our performance is reflected in the value we bring to our customers.

Nye Lubricants is a leader in the innovation, formulation and provision of synthetic lubricants, enabling and improving breakthrough products and critical new technologies. We bring proven experience, deep technical knowledge and customer focus to solve our customers' toughest challenges, adding tangible value to products in a wide range of industries and applications.

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