

“I Know Exactly When to Stop.”

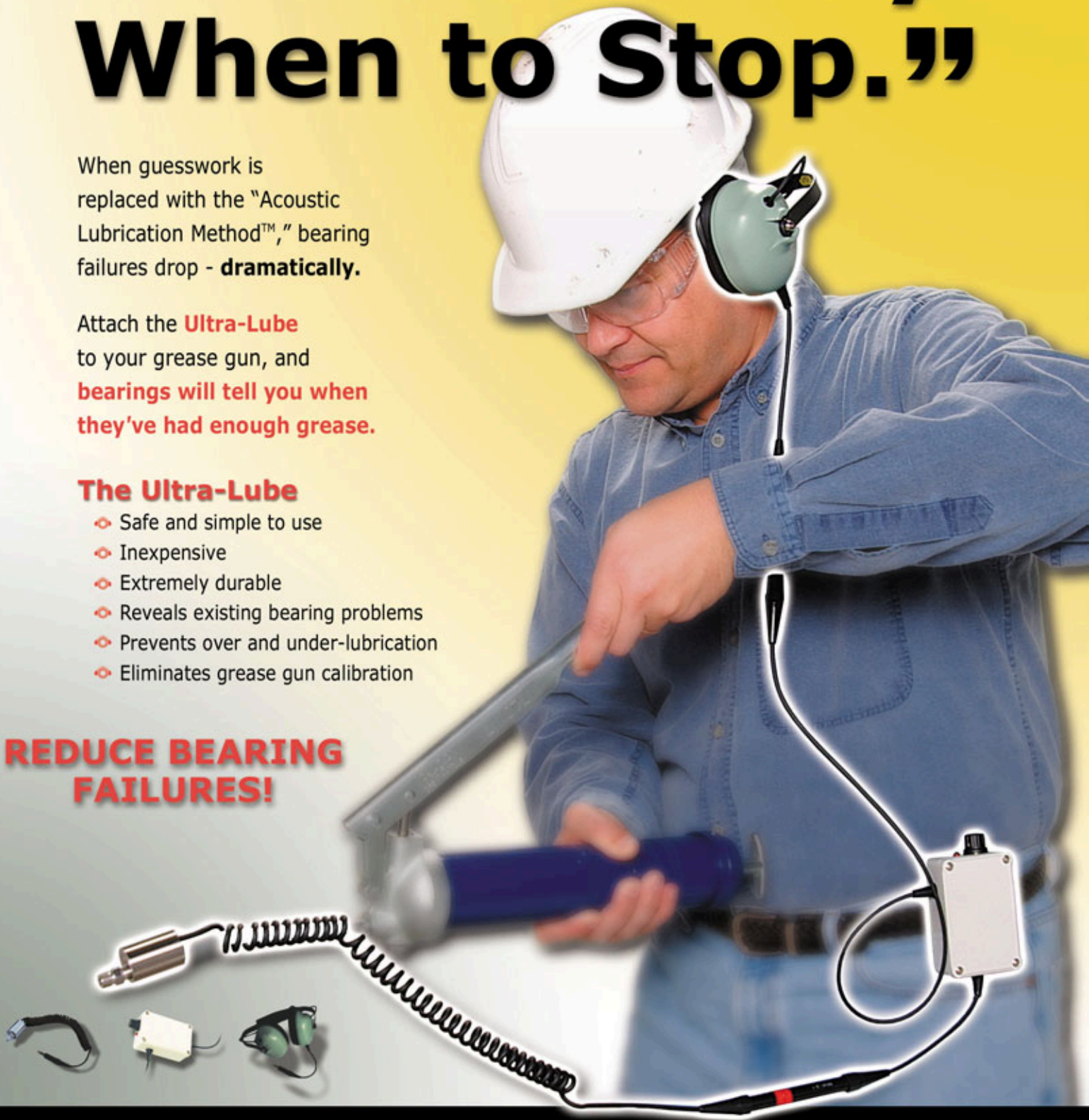
When guesswork is replaced with the “Acoustic Lubrication Method™,” bearing failures drop - **dramatically.**

Attach the **Ultra-Lube** to your grease gun, and **bearings will tell you when they've had enough grease.**

The Ultra-Lube

- ◆ Safe and simple to use
- ◆ Inexpensive
- ◆ Extremely durable
- ◆ Reveals existing bearing problems
- ◆ Prevents over and under-lubrication
- ◆ Eliminates grease gun calibration

REDUCE BEARING FAILURES!



For more information,
please contact Lana Robin
at 813-621-6463 or
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Ultra-Lube Technical Data Sheet

Purpose:

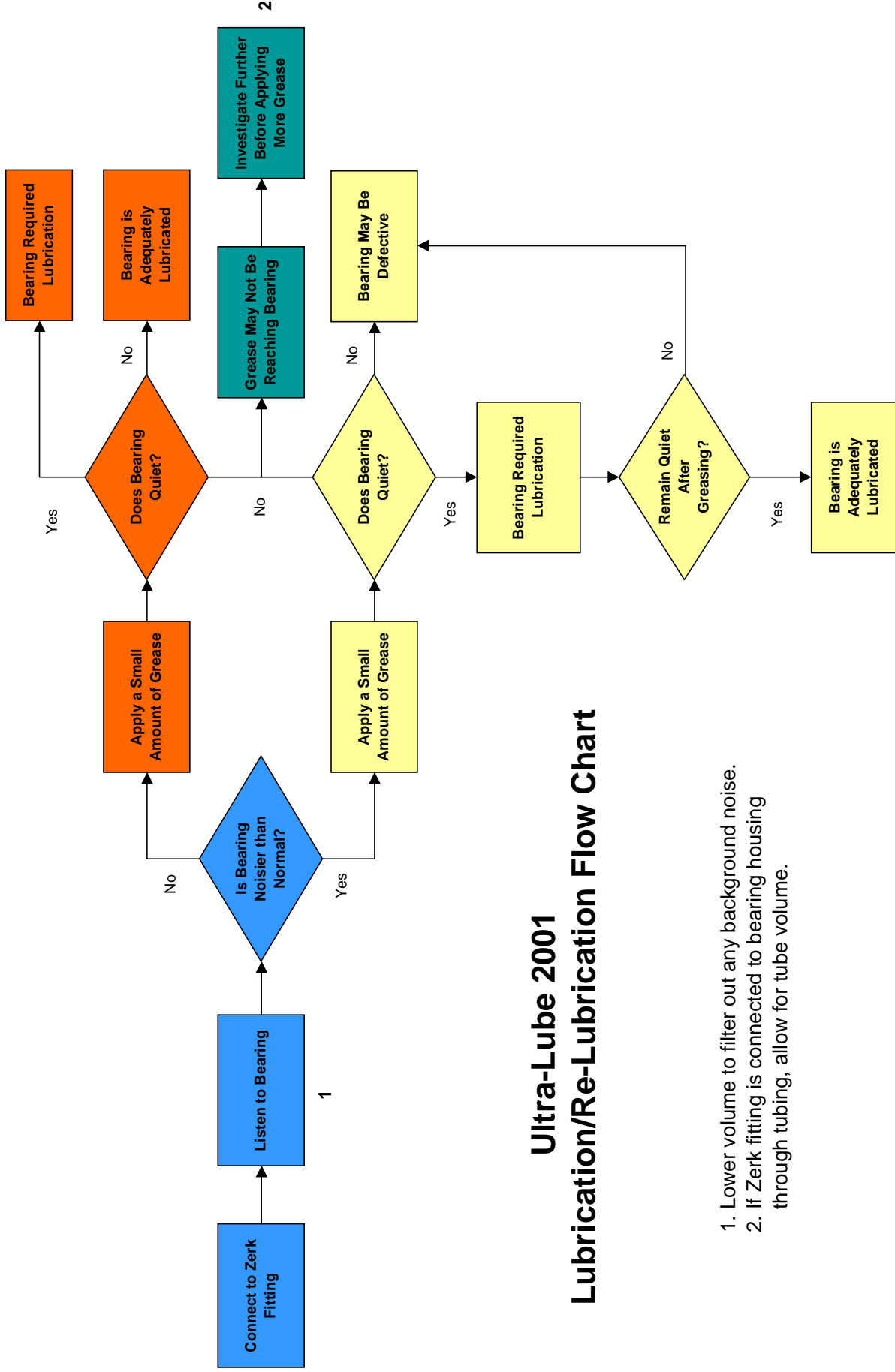
To allows Lubrication Technicians to listen to the quality of sound of a bearing while lubricating. The ability to listen to the bearing as lubrication is being injected prevents over and under-lubrication, because the user is able to hear bearing sound change when enough lubrication has entered cavity.

Benefits:

- Proactively Lubricates – The Ultra-Lube allows Lubrication Technicians to proactively lubricate bearings using a proven method of lubrication. The ability to determine the exact requirements of a bearing at proper intervals extends bearing life and customizes outdated time/amount based lubrication schedules.
- Identifies Bad Bearings – The Ultra-Lube’s sensitivity can detect sounds generated by problems associated with bearing failure.
- Saves Time – Lubrication Technician will first listen to a bearing. If lubrication is not needed, then no further time is spent there and on to the next bearing in the lubrication schedule. Also, a Lubrication Technician, upon hearing a possibly damaged bearing, may now report it, saving time for higher echelon maintenance.
- Safe To Use - The Ultra-Lube has many safety features, including special connectors that easily disconnect should any part become entangled in rotating equipment. Electronics are sealed in epoxy and enclosed in a NEMA 4 rated, ABS plastic enclosure. All electrical cords are shielded and shrink-wrapped where connections have been made. Headsets have a noise reduction rating of 23 decibels.
- Simple To Use – No special training is necessary to operate the Ultra-Lube.
- Eliminates Grease Gun Calibration – The Ultra-Lube customizes the grease lubrication requirements of bearings, therefore eliminating the necessity of having every grease gun calibrated for what each pump or “shot” yields. The Ultra-Lube can also hear if grease has reached bearing.

Technical Data:

Frequency Range	:20Hz – 20kHz, 4.6kHz median peak
Operating Temperature	:0-45°C (32-113°F)
Output Volume	:adjustable
Headset	:8 Ohm, attenuating NRR – 23dbl
Power Supply	:9V Alkaline industrial battery
Output Power	:.7V
Battery Life	:approx. 20-22 hours; on/off indicator light
Electronics Box	:NEMA 4, ABS plastic, hermetically sealed
Dimensions	:9.842 x 6.35 x 3.81 cm (3.875 x 2.5 x 1.5 in)
Weight (Headset)	:360 g (12.5 oz)
Weight (Electronics Box)	:275 g (9.5 oz)
Weight (Probe Tip Sensor)	:190 g (6.5 oz)



Ultra-Lube 2001 Lubrication/Re-Lubrication Flow Chart

1. Lower volume to filter out any background noise.
2. If Zerk fitting is connected to bearing housing through tubing, allow for tube volume.



Wood Products/Pulp & Paper

Abitibi-Consolidated Inc.
Alabama River Newsprint
Avenor Inc.
Banks Lumber Company
Boise Cascade
Bowater Inc.
Bright Woods Corp.
Buckeye Florida, L.P.
Cedar River Paper Co.
Champion International
Consolidated Papers, Inc.
Dairyland Power Cooperative
Domtar Inc.
Englehard Corporation
Finley Forest Products
Fletcher Challenge Canada, Ltd.
Fort James Corp.
Georgia Pacific Corp.
Grays Harbor Paper
Green Bay Packaging
Hollingsworth & Vose
Inland Paperboard & Packaging
International Paper
Irving Tissue Co.
Jefferson Smurfit
Kimberly-Clark Corp.
Lake Superior Paper Industries
Little Rapids Co.
Longlac Wood Industries
Longview Fibre Co.
MacMillan Bloedel Limited
Manke Lumber Co.
Mead Specialty Papers
Monadnock Paper Mills
Newark Sierra Paperboard Corp.
Newsprint South
NorskeCanada
Packaging Corporation of America
Pacific Veneer, Ltd.
Plum Creek Mfg.
Port Townsend Paper
Potlatch Forest Industries
Proctor & Gamble Co.
Rainy River Forest Products
Riverwood International
Stag Timber
St. Marys Paper Ltd.
Stone Container Corp.
Tembec, Inc.
Tenneco Packaging
Union Camp Corp.
Wausau Paper
Welco Lumber Co.
Weyerhaeuser Co.

Food/Agriculture

A.E. Staley Manufacturing Co.
Amalgamated Sugar Company
ConAgra-Lamb Weston Foods
Caprock Industries
Cargill B.V., The Netherlands
Cargill Incorporated
Consolidated Grain & Barge, Co.
Darigold
Excel Corporation
Fisher Mills, Inc.
Monsanto Company
National Frozen Foods
Pace Co.
Purina-Ralston Foods Corp.
Southern Minnesota Beet Sugar
Symons Frozen Foods
Western Empires Inc.

Metals

Algoma Steel Inc.
Korea Zinc Co, S. Korea
National Steel
NUCOR Steel
Oregon Steel Mills
Reynolds Metals Co.
U.S. Steel

Utilities/Power Generation

Allegheny Energy
Al Taweelah Power Co, United Arab Emirates
AmerGen Energy Company, LLC
American National Power
Arizona Power Services
Cleveland Electric Illuminating Co.
Columbia Improvement District
Commonwealth Edison
Detroit Edison
Dominion Generation
Energy Corp.
Florida Power Corp.
InterGen
Kansas City Power & Light Co.
LaPaloma Generating Company
Logan Generating Company
Los Alamos National Laboratories
Magnolia Energy
Midlothian Energy L.P.
Northern States Power Co.
Northampton Generating Co.
Ontario Power Generation
Pacific Corp.
Pacific Gas & Electric
Portland General Electric
Progress Energy
Salt River Project – Santan Generating Station
South Carolina Electric & Gas
Southern California Edison
Southern Nuclear Operating Company
Salt River Project – Santan Generating Stn.
Thunder Basin Coal
U.S. Army Corp. of Engineers
U.S. Generating Co.
The Dalles Dam
Texas Utilities Electric
Tractebel Electricity & Gas International
Trigen Energy Corporation
Virginia Power Co.
Westcoast Energy Inc.
Xcel Energy

Chemicals/Petrochemicals

ALCOA Inc.
Aristech Chemical Co.
Ashta Chemicals Inc.
BASF Corporation
Calgon Carbon Corp.
Cargill Crop Nutrition
Dow Chemical Co.
East Texas Salt Water Disposal
E.I. DuPont de Nemours & Co.
Engelhard
ESSO Australia Ltd.
GAF Corporation
Great Lakes Chemical
Henkle Corp.
Hyundai Petro Chemicals, S. Korea
IMC-Agrico Co.
Kerr-McGee Chemical LLC
LaRoche Industries
LG-Caltex Oil Refinery Co, S. Korea
Morton International
Occidental Petroleum Corp, Ecuador
Penn Specialty Chemicals
Reilly Industries, Inc.
Saudi Aramco, Ju'aymah Gas Plant
Saehan Co, S. Korea
SF Phosphates Limited Co.
Sumitomo Sitix Silicon, Inc.
Syngenta Crop Protection, Inc.
Tosco Corp.
Union Carbide Corp.
Uno-Ven Refinery
Vulcan Chemicals

Hospitals/Institutions

Cleveland Clinic Foundation
St. Vincent Hospital
University of Washington

Manufacturing/OEM

AlliedSignal Inc.
Arcadia Corp.
Avery Dennison
B&M Plastics
Beloit Corp.
Boeing Co.
Brush Wellman, Inc.
Cloday Corporation
Cummins Engine Co., Inc.
Cyril Scott Corp.
DAF Trucks, The Netherlands
Delphi Corporation
Doorcraft of Indiana
E.I. DuPont de Nemours & Co.
FNA Polymer Corp.
Fujitsu Microelectronics, Inc.
GAF Materials Corporation
General Electric Co.
General Mills Inc.
General Motors Corp.
General Motors Powertrain
Honeywell International Inc.
IBM Corporation
Intel Corporation
Johnson Controls
Mikron Industries
New England Woodware
Osram Sylvania
Owens Corning
Pace Co.
PMC Industries
Procter & Gamble
Safety-Kleen Corp.
Timken Co.
Toray Plastics
US Intec Inc.
Velcro USA, Inc.
Whirlpool Corporation
Wilsonart

Pharmaceuticals/Labs

Abbott Laboratories
Amgen Inc.
Eli Lilly & Company
Fermi National Laboratories
FMC Corp.
Genzyme Transgenics Corp.
Immunex
Los Alamos National Laboratories
Novo Nordisk BioChem, Inc.

Mining/Aggregates

Albian Sands Energy Inc.
Lee Ranch Coal Co.
Minera Los Pelambres, Chile
NYCO Minerals
OCI Wyoming
Phoenix Cement
U.S. Borax
U.S. Silica Co

Service/Engineering

2R Systems Inc.
Air Liquide America
Argosy Enterprises, Pakistan
Associated Products, LLC
Benson Industries
Blackrock Technology
Brunette Equipment
CB Richard Ellis
Federal Express
Federal Reserve Bank
Ind. Lubrication & Maint. Co.
Maintech Corp.
Mobil Lubrication Services
PdMA Corporation
Peel Resource Recovery, Canada
Reliability Equipment Specialists
Schematic Approach Inc, Canada
Solge Corp, South Korea
Solinas Benelux BV, The Netherlands
VibeAssist Inc.
Vitech Asia-Pacific Pty. Ltd, Australia

Testimonials and Comments Regarding the Ultra-Lube

Testimonial - Gary Latham, Algoma Steel Inc.

The Ultra-Lube 2001 is allowing us to, very simply and at a low cost, revolutionize the way we grease our equipment. It inspires us to step back and think about the effect of greasing and how we should change our antiquated methods handed down over generations that were wrong.

The use of this unit should be the first basic step any company must make toward proactive maintenance as it is extremely cost effective.

Already, in a very short time, the Ultra-Lube 2001 has enabled us to make some major breakthroughs in thinking on fan bearings that are destined to save the company millions of dollars in maintenance costs and heightened operating time.

Thank you UVLM for a truly awesome product that has great proactive potential.

Testimonial - Judson Patterson, Vibration Analyst, U.S. Alliance

After our plant purchased the Ultra-Lubes for our oilers, I was interested to see how it would work for the Vibration Analyst group. I never gave it back. I use it for all my interim vibration inspections to check conditions. I use it to check up on my Vibration Analysis equipment and confirm what it is saying is going on in the machinery. It also helps my time wave analysis. I have found numerous cracked and damaged bearings with it and it helps on motor analysis. I'd say it has helped my job 30% or better.

Testimonial - Dianne Peterson, Lubrication Technician, Weyerhaeuser Co.

The Ultra-Lube has cut my time lubricating, in areas where allowable, at least in half. It is a pleasure to use. I'm very happy with it.

Statement made by a large pulp & paper company in Ontario, Canada after having purchased 3 Ultra-Lubes, then purchased 3 more one month later.

Upon receiving our Ultra-Lubes, we saved over \$10,000 the very first day. That allowed us to justify another purchase order of 3 more tools.

Testimonial – Rollie Johnson, Vibration Analyst, Tinker Airforce Base

Subject: Problems discovered with your product

From: Rollie Johnson, Vibration Analyst, Tinker Air Force Base

Example #1: After repairs to a furnace exhaust system, the equipment was energized and checked with a vibration analyzer. It was indicating a problem with the inboard flange bearing. Using your instrument, the problem was verified and corrected. The bearing had been either not lubricated properly or minimally lubricated from the manufacturer. Problem solved.

Example #2: On a routine vibration data collection route, The UVLM monitor was taken along and used concurrently with the analyzer. Several fume scrubber blower pillow block bearings were found to be "noisy", by using the UVLM the problem was corrected at the time of discovery without the need for corrective maintenance work orders to be issued with all the paperwork generated and unnecessary man-hours expended. Once again, problem solved.